

Carlos Peiro Embid

# Computarización del glaucoma

Director/es  
Piñero Bustamante, Antonio

<http://zaguan.unizar.es/collection/Tesis>

ISSN 2254-7606



Prensas de la Universidad  
Universidad Zaragoza



© Universidad de Zaragoza  
Servicio de Publicaciones

ISSN 2254-7606

## Tesis Doctoral

# COMPUTARIZACIÓN DEL GLAUCOMA

Autor

Carlos Peiro Embid

Director/es

Piñero Bustamante, Antonio

**UNIVERSIDAD DE ZARAGOZA**  
**Escuela de Doctorado**

1986



UNIVERSIDAD DE ZARAGOZA  
FACULTAD DE MEDICINA

CATEDRA DE OFTALMOLOGIA  
PROF. DR. D.ANTONIO PIÑERO BUSTAMENTE

"COMPUTARIZACION DEL GLAUCOMA"

CARLOS PEIRO EMBID  
TESIS DOCTORAL, JUNIO 1.986

## AGRADECIMIENTOS

Deseo expresar mi más profundo agradecimiento al director de la Tesis Prof.Dr.D. Antonio Piñero Bustamente por haberme ayudado en el conocimiento y la práctica de la Oftalmología, así como por los consejos y la revisión del original.

A los Doctores Dña.Ester Loras Alegre y Dr.Luis Pastor Loscertales de la unidad de Glaucoma del Servicio de Oftalmología del H.C.U. de Zaragoza, por su constante estímulo, confianza y amistad que en todo momento me han prestado.

Al Licenciado en Físicas , Miguel Canellas Añoz, por sus valiosas críticas y apreciados consejos.

Al Licenciado en Matemáticas , Luis Montes Oriol, por su colaboración en el desarrollo de este trabajo.

A Swchit Informatica por haberme cedido el material necesario para la realización de esta Tesis.

A la Sra Carmen Calvo de Juan, por su labor mecanografica.

I. INTRODUCCION .....	1
II. JUSTIFICACION Y PROPOSITOS .....	6
III. MATERIAL Y METODOS .....	7
Subprograma 1 .....	1
Subprograma 2 .....	11
Subprograma 3 .....	18
Subprograma 4 .....	23
Subprograma 5 .....	37
Subprograma 6 .....	41
Subprograma 7 .....	46
Subprograma 8 .....	50
Subprograma 9 .....	54
Subprograma 10 .....	60
Subprograma 11 .....	66
Subprograma 12 .....	72
Subprograma 13 .....	77
Subprograma 14 .....	93
Subprograma 15 .....	101
Subprograma 16 .....	110
Subprograma 17 .....	115
Subprograma 18 .....	133
Subprograma 19 .....	141
Subprograma 20 .....	148
Subprograma 21 .....	155
Subprograma 22 .....	160
Subprograma 23 .....	178
Subprograma 24 .....	185

	<u>Pag.</u>
Subprograma 25 .....	199
Subprograma 26 .....	201
<b>IV. DISCUSION .....</b>	<b>208</b>
<b>V. CONCLUSIONES .....</b>	<b>214</b>

## INTRODUCCION

La informática es, hoy dia, una herramienta que se viene utilizando en todas las áreas de la actividad humana. Concretamente en la medicina, en donde dicha ciencia esta viviendo un gran auge. Podemos señalar los siguientes grandes apartados en los que tiene gran aplicación e incidencia:

- 1.- Docencia
- 2.- Investigación
- 3.- Gestión hospitalaria
- 4.- Sistemas integrados en instrumental medico
- 5.- Medicina preventiva
- 6.- Diagnóstico

Si Miguel Servet fue quemado vivo por descubrir la circulación pulmonar en 1.553; no quiero imaginarme lo que le hubiera pasado a algún galeno que hubiera hecho la predicción de que un día los médicos podrían pasar su consulta diaria ayudados de esas ya insustituibles máquinas llamadas ordenadores.

La informática médica es tan sencilla como usar un martillo de reflejos. En muy pocas horas, sin códigos extraños y a un precio razonable, podemos liberarnos de las tareas auxiliares de la consulta

..../....

diaria para dedicar nuestro trabajo al paciente. El ordenador, esa herramienta indispensable de fin de siglo, dispone ya en España de programas elaborados por y para médicos.

~~Además~~ OTRAS Uno de los mayores problemas en clínica e investigación es el almacenaje y consulta de gran cantidad de datos. Una ayuda para solucionar este problema está en la utilización de la tecnología del computador. Ha habido varios intentos para desarrollar una base computarizada de datos para oftalmología. Desafortunadamente, muchos de estos intentos han estado constituidos por proyectos pilotos o han utilizado una tecnología ahora superada por el rápido desarrollo del campo de la tecnología de los ordenadores.

Las técnicas e instrumentaciones de los ordenadores han sido aplicados al historial clínico del glaucoma para proporcionar una información completa al oftalmólogo.

En cualquier unidad de glaucoma de un hospital dedicado a la enseñanza, los historiales clínicos presentan a menudo numerosas dificultades. Los residentes cambian frecuentemente y el paciente es controlado por varios oftalmólogos. El médico al no serle familiar el enfermo, debe de emplear mucho tiempo en revisar todos los datos que le interesan en un largo historial clínico. La mayoría de los pacientes con glaucoma suelen ser mayores de 40 años y tienen numerosas visitas

.../...

para seguir la evolución de su campo central, presión intraocular, y otros parametros de control. Estos historiales son a menudo bastante extensos, como el de otras enfermedades comunes a éste grupo de edad. Ademas, la información suele estar entremezclada entre otras, lo que dificulta aun más la localización de ciertos datos. Una escritura difícil de leer, característica de muchos medicos, provoca otro problema suplementario en la identificación de los datos. También un historial clínico puede estar en ese momento en otra unidad de oftalmología, lo que causa un retraso en la ejecución del acto medico.

En un intento de superar estos y otros obstaculos se han aplicado las técnicas del ordenador al historial del glaucoma. Los oftalmólogos usan métodos similares en el diagnóstico y tratamiento del glaucoma, de ese modo simplifican el desarrollo de formas standar para la recogida de datos. Las formas de transformación de la información dentro del ordenador permiten hacer posible el uso de modernos medios de comunicación que transfieren la información procedente de un banco central a unos perifericos situados en cualquier parte del hospital y a una extremadamente alta velocidad de transmisión de datos.

Hoy por hoy la bibliografía de esta aplicación medica es bastante escasa y solamente podemos destacar los siguientes trabajos:

1.- Uso del ordenador en el glaucoma clinico.

**Henry S.Metz**  
**Edwuard E. Madden,Jr.**  
**Van R. Williams**  
**Carol M.Vaughan**

Este trabajo publicado en 1.969, nos presenta una muy escueta historia clinica. Es una publicación que no merece comentarios por estar ya anticuada.

2.- Base de datos computarizada del glaucoma.

**Robert H. Greenfield**  
**Michael A.Kass**  
**Jeryl P. Livingston**

Nos presenta una base de datos bastante más extensa que la anterior publicación. Hay que resaltar que en ella los datos van a escribirse en diskete de forma codificada con lo que nos ahorra un gran espacio en disco.

Al igual que la anterior y todas la siguientes carece de opción de gráficos.

.../...

3.- Consulta del glaucoma por ordenador.

**Sholom Weiss**  
**Casimir A.Kulikowski**  
**Aran Safir**

Este trabajo describe un sistema de base de datos para consulta en el diagnóstico y terapia del glaucoma. Los razonamientos provocan la interpretación de los hallazgos en un paciente en los términos de un modelo causa-efecto que caracteriza los mecanismos fisiopatológicos y curso clínico del tratamiento de la enfermedad.

4.- Monitorización computarizada del glaucoma.

**R. Pitts Crick**

Es la publicación más actual y completa. En ella nos basaremos para realizar la discusión del trabajo que nos ocupa.

## JUSTIFICACION Y PROPOSITOS

acerca de la relación entre el gasto en el glaucoma y la mortalidad materna, es lo que nos ocupa.

Diferentes autores han tratado el tema, siendo el primero por Crick. Basándose haber hecho de su aplicación a otros propósitos en todos los países, se dan datos, como en el siguiente cuadro:

## II. JUSTIFICACION Y PROPOSITOS

## JUSTIFICACION Y PROPOSITOS

Una vez analizados todos los trabajos existentes acerca de la computarización de la historia clínica del glaucoma y ante el avance continuado de la microinformática, es necesario una actualización del tema que nos ocupa.

Diferentes autores han tratado este tema.

El único a reseñar por su trabajo es **R. Pitts - Crick**. Después de haber hecho un estudio detallado de su aplicación, nuestro propósito ha sido el mejorarla en todos los sentidos, ya sea a nivel de la petición de datos, como en la aparición de esquemas gráficos.

### **MATERIAL Y METODOS**

- Para la realización de los experimentos se ha utilizado los siguientes materiales y métodos:
- 1.- Un ordenador personal:
    - a) Un CPU (Centro de Procesamiento de datos) PC/386.
    - b) Un TECLADO LS20.
    - c) Una PANTALLA DE CRISTAL LÍQUIDO.
    - d) Una PLACA DE GRÁFICOS.
    - e) Una capacidad de memoria de 16 MB.
  - 2.- Un sistema operativo denominado MS/DOS.
  - 3.- Un sistema operativo denominado CP/M.
  - 4.- Un software de tratamiento de textos denominado WORD PROCESSOR.
  - 5.- Discetas 3M de doble cara y poligadas.
  - 6.- Disquería DIGITAL de 3.5 pulgadas.
  - 7.- Un Interpretador de programación CHBASIC.
  - 8.- Los siguientes programas:
    - a) MS/DOS.
    - b) WORD.

### **III. MATERIAL Y METODOS**

## MATERIAL Y METODOS

Para la realización de este trabajo se han utilizado los siguientes elementos:

- 1.- Un ordenador personal DIGITAL compuesto por:
  - a) Un CPU (unidad central de procesamiento de datos) PC100 RAINBOW 100
  - b) Un TECLADO LK201
  - c) Una PANTALLA DE GRAFICOS DE COLOR VR241
  - d) Una PLACA DE GRAFICOS PC1XX-BA
  - e) Una capacidad de memoria externa de 128K
- 2.- Un sistema operativo denominado MS/DOS
- 3.- Un sistema operativo denominado CP/M 80-86
- 4.- Un tratamiento de textos denominado WORDSTART
- 5.- Diskettes 3M de doble cara, doble densidad de 5 pulgadas
- 6.- Diskettes DIGITAL de 5 pulgadas
- 7.- Un interprete con opción de gráficos denominado GWBASIC
- 8.- Los siguientes manuales:
  - a) MS/DOS OPERATING SYSTEM
  - b) MANUAL DE BASIC ELEMENTAL Y SISTEMATICO

- c) MANUAL DE FICHEROS BASIC
- d) MANUAL DE APLICACIONES DE FICHEROS BASIC
- e) BASIC BASICO (curso de programación)
- f) BASIC JUNIOR (iniciación a la programación)
- g) BASIC BASICO (programas comentados)
- h) PROGRAMACION BASIC
- i) CPM MANUAL DE USUARIO
- j) MS/DOS PASO A PASO
- k) FICHEROS EN BASIC
- l) MANUAL DEL GWBASIC
- m) CP/M OPERATING SYSTEM

9.- Una Historia clínica universal del glaucoma para poder observar la capacidad y utilidad de ésta aplicación a nivel de su aplicación clínica.

10.- Los 26 siguientes programas

```

10 ' DATOS AYUDA TERAPEUTICA
20 COLOR 2,0:SCREEN 3:CLS
30 LOCATE 1,1:COLOR 1,3,0:PRINT " DATOS AYUDA TERAPEUTICA "
" 
40 LOCATE 6,13:COLOR 3,0,0:PRINT "1 - CLASIFICACION DE LOS GLAUCOMAS Y SUS ORIEN-
TACIONES TERAPEUTICAS"
50 LOCATE 10,13:COLOR 3,0,0:PRINT "2 - CLASIFICACION DE LAS INTERVENCIONES SEGUN
SU OBJETIVO"
60 LOCATE 14,13:COLOR 3,0,0:PRINT "3 - CRITERIOS TERAPEUTICOS DEL GLAUCOMA CRONI-
CO SIMPLE"
70 LOCATE 18,13:COLOR 3,0,0:PRINT "4 - VOLVER AL MENU PRINCIPAL"
80 LOCATE 24,36,0:COLOR 0,1,0:PRINT " PULSE LA OPCION DESEADA "
90 A$=INKEY$
100 IF A$=="1" THEN GOTO 150
110 IF A$=="2" THEN GOTO 2130
120 IF A$=="3" THEN CHAIN "B:WWW.BAS"
130 IF A$=="4" THEN CHAIN "B:MENU.BAS"
140 GOTO 90
150 ' CLASIFICACION DE LOS GLAUCOMAS Y SUS ORIENACIONES TERAPEUTICAS
160 COLOR 2,0:CLS
170 LOCATE 1,1,0:COLOR 1,3:PRINT " CLASIFICACION "
180 LOCATE 5,10,0:COLOR 3,0:PRINT " - GLAUCOMAS POR HIPERSECRECION (1) "
190 LOCATE 7,10,0:COLOR 3,0:PRINT " - GLAUCOMAS PRETRABECULARES "
200 LOCATE 9,10,0:COLOR 3,0:PRINT " - FUNCIONALES (2) "
210 LOCATE 11,10,0:COLOR 3,0:PRINT " - ORGANICOS (3) "
220 LOCATE 13,10,0:COLOR 3,0:PRINT " - GLAUCOMAS PRETRABECULARES CON AFECTACION
'TRABECULAR (4) "
230 LOCATE 15,10,0:COLOR 3,0:PRINT " - GLAUCOMA TRABECULAR (5) "
240 LOCATE 17,10,0:COLOR 3,0:PRINT " - GLAUCOMA POST-TRABECULAR (6) "
250 LOCATE 19,10,0:COLOR 3,0:PRINT " - VOLVER AL MENU PRINCIPAL(7) "
260 LOCATE 24,36:COLOR 0,1:PRINT " PULSE LA OPCION DESEADA "
270 A$=INKEY$
280 IF A$=="1" THEN GOTO 350
290 IF A$=="2" THEN GOTO 440
300 IF A$=="3" THEN GOTO 1090

```

```

310 IF A$="4" THEN GOTO 1210
320 IF A$="5" THEN GOTO 1470
330 IF A$="7" THEN GOTO 10
340 GOTO 270
350 GOSUB 3030
360 LOCATE 2,30,0:COLOR 1,0:PRINT "F"
370 LOCATE 7,3,0:COLOR 3,0:PRINT "GLAUCOMAS POR HIPERSECRECION"
380 LOCATE 7,47,0:PRINT "ADRENALINA"
390 LOCATE 9,47,0:PRINT "DIURETICOS"
400 LOCATE 11,47,0:PRINT "BETA-BLOQUEANTES"
410 LOCATE 7,71,0:PRINT "TRABECULECTOMIA"
420 GOSUB 3180
430 GOTO 160
440 COLOR 2,0:CLS
450 GOSUB 3030
460 LOCATE 2,34,0:COLOR 1,0:PRINT "R"
470 LOCATE 7,3,0:COLOR 3,0:PRINT "GLAUCOMAS PRETRABECULARES FUNCIONALES"
480 LOCATE 9,3,0:COLOR 3,0:PRINT " - BLOQUEO ANGULAR"
490 LOCATE 11,3,0:COLOR 3,0:PRINT " GLAUCOMA DE ANGULO CERRADO"
500 LOCATE 13,3,0:COLOR 3,0:PRINT " GLAUCOMA CON IRIS EN MESETA"
510 LOCATE 11,47,0:PRINT "MIOTICOS" ;LOCATE 11,71:PRINT "IRIDECTOMIA PERIFERICA"
520 LOCATE 13,47,0:PRINT "MIOTICOS" ;LOCATE 13,71:PRINT "IRIDENCELEISIS"
530 LOCATE 15,71:PRINT "PERIFERICA"
540 LOCATE 17,71:PRINT "SUBESCLERAL"
550 LOCATE 19,71:PRINT "IRIDOCICLORETRACCION"
560 GOSUB 3180
570 COLOR 2,0:CLS
580 GOSUB 3030
590 LOCATE 2,34,0:COLOR 1,0:PRINT "R"
600 LOCATE 7,3,0:COLOR 3,0:PRINT "GLAUCOMAS PRETRABECULARES FUNCIONALES (CONT)"
610 LOCATE 9,3,0:COLOR 3,0:PRINT " - BLOQUEO PUPILAR"
620 LOCATE 11,3,0:COLOR 3,0:PRINT " GLAUCOMA DE ANGULO CERRADO"
630 LOCATE 13,3,0:COLOR 3,0:PRINT " INTUMESCENCIA DEL CRISTALINO"
640 LOCATE 15,3,0:COLOR 3,0:PRINT " SECLUSION PUPILAR"
650 LOCATE 11,47,0:PRINT "MIOTICOS" ;LOCATE 11,71:PRINT "IRIDECTOMIA PERIFERICA"
660 LOCATE 13,47,0:PRINT "MIDRIATICOS" ;LOCATE 13,71:PRINT "EXTRACCION DEL CRISTALINO"
670 LOCATE 15,47,0:PRINT "MIDRIATICOS" ;LOCATE 15,71:PRINT "IRIDECTOMIA PERIFERICA"
680 LOCATE 17,71:PRINT "O TOTAL"

```

```

690 LOCATE 19,3,0:COLOR 3,0:PRINT " VITREO" :LOCATE 19,71:PRINT "VITRECTOMIA"
700 LOCATE 19,47,0:PRINT "MIDRIATICOS" :LOCATE 19,71:PRINT "VITRECTOMIA"
710 LOCATE 21,47,0:PRINT "OSMOTICOS" :LOCATE 21,71:PRINT "VITRECTOMIA"
720 GOSUB 3180
730 COLOR 2,0:CLS
740 GOSUB 3030
750 LOCATE 2,34,0:COLOR 1,0:PRINT "R" :LOCATE 2,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
760 LOCATE 7,3,0:COLOR 3,0:PRINT "GLAUCOMAS PRETRABECULARES FUNCIONALES (CONT)" :LOCATE 7,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
770 LOCATE 9,3,0:COLOR 3,0:PRINT " - BLOQUEO PUPILAR (CONT)" :LOCATE 9,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
780 LOCATE 11,3,0:COLOR 3,0:PRINT " MASAS" :LOCATE 11,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
790 LOCATE 15,3,0:COLOR 3,0:PRINT " AIRE" :LOCATE 15,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
800 LOCATE 17,3,0:COLOR 3,0:PRINT " LUXACION ANT. CRISTALINO" :LOCATE 17,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
810 LOCATE 11,47,0:PRINT "MIDRIATICOS" :LOCATE 11,71:PRINT "ASPIRACION DE MASAS"
820 LOCATE 13,47:PRINT "OSMOTICOS" :LOCATE 13,71:PRINT "PARACENTESIS"
830 LOCATE 15,47,0:PRINT "MIDRIATICOS" :LOCATE 15,71:PRINT "EXTRACION DEL CRISTALI
840 LOCATE 17,47,0:PRINT "MIOTICOS !" :LOCATE 17,71:PRINT "EXTRACION DEL CRISTALI
NO" :LOCATE 17,71:PRINT "VITRECTOMIA"
850 GOSUB 3180
860 COLOR 2,0:CLS
870 GOSUB 3030
880 LOCATE 2,34,0:COLOR 1,0:PRINT "R" :LOCATE 2,71:PRINT "GLAUCOMAS PRETRABECULARES FUNCIONALES (CONT)" :LOCATE 2,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
890 LOCATE 7,3,0:COLOR 3,0:PRINT " - BLOQUEO CILIAR (GLA. MALIGNO)" :LOCATE 7,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
900 LOCATE 9,3,0:COLOR 3,0:PRINT " EN OJO FAQUICO" :LOCATE 9,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
910 LOCATE 11,3,0:COLOR 3,0:PRINT " ESPONTANEO" :LOCATE 11,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
920 LOCATE 13,3,0:COLOR 3,0:PRINT " POR MIOTICOS" :LOCATE 13,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
930 LOCATE 15,3,0:COLOR 3,0:PRINT " POSTQUIRURGICO" :LOCATE 15,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
940 LOCATE 17,3,0:COLOR 3,0:PRINT " -" :LOCATE 17,71:PRINT "CIRUGIA DEL VITREO"
950 LOCATE 13,47,0:PRINT "MIDRIATICOS" :LOCATE 13,71:PRINT "EXTRACION CRISTALINO" :LOCATE 13,71:PRINT "CIRUGIA DEL VITREO"
960 LOCATE 15,47,0:PRINT "OSMOTICOS" :LOCATE 15,71:PRINT "EXTRACION CRISTALINO" :LOCATE 15,71:PRINT "CIRUGIA DEL VITREO"
970 LOCATE 17,71:PRINT "VITRECTOMIA" :LOCATE 17,71:PRINT "CIRUGIA DEL VITREO"
980 GOSUB 3180
990 COLOR 2,0:CLS
1000 GOSUB 3030
1010 LOCATE 2,34,0:COLOR 1,0:PRINT "R" :LOCATE 2,71:PRINT "GLAUCOMAS PRETRABECULARES FUNCIONALES (CONT)" :LOCATE 2,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
1020 LOCATE 7,3,0:COLOR 3,0:PRINT " - BLOQUEO CILIAR (GLA. MALIGNO)" :LOCATE 7,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
1030 LOCATE 9,3,0:COLOR 3,0:PRINT " EN OJO AFAQUICO" :LOCATE 9,71:PRINT "GLAUCOMAS RETRADECULARES CONGENITALES"
1040 LOCATE 11,3,0:COLOR 3,0:PRINT "DISCISION" :LOCATE 11,71:PRINT "DISCISION"
1050 LOCATE 11,47,0:PRINT "MIDRIATICOS" :LOCATE 11,71:PRINT "DISCISION" :LOCATE 11,71:PRINT "DISCISION"
1060 LOCATE 13,47,0:PRINT "OSMOTICOS" :LOCATE 13,71:PRINT "VITRECTOMIA" :LOCATE 13,71:PRINT "VITRECTOMIA"
1070 GOSUB 3180

```

```

1080 GOTO 160
1090 , ORGANICOS COLOR 3,0;PRINT "TIMOLOL" ;LOCATE 19,71;PRINT "CICLOCRIOTERAPIA"
1100 COLOR 2,0:CLS
1110 GOSUB 3030 COLOR 1,0;PRINT "R"
1120 LOCATE 2,34,0:COLOR 1,0;PRINT "R"
1130 LOCATE 7,3,0:COLOR 3,0;PRINT "GLAUCOMAS PRETRABECULARES ORGANICOS"
1140 LOCATE 9,3,0:COLOR 3,0;PRINT " GLAUCOMAS CONGENITOS Y "
1150 LOCATE 11,3,0:COLOR 3,0;PRINT " MALFORMATIVOS"
1160 LOCATE 11,47,0:PRINT "MIOTICOS" :LOCATE 11,71;PRINT "GONIOTOMIA"
1170 LOCATE 13,47,0:PRINT "PREPARACION" :LOCATE 13,71;PRINT "TRABECULOTOMIA"
1180 LOCATE 15,47,0:PRINT "QUIRURGICA" :LOCATE 15,71;PRINT "TRABECULECTOMIA"
1190 GOSUB 3180
1200 GOTO 160
1210 COLOR 2,0:CLS
1220 GOSUB 3030
1230 LOCATE 2,34,0:COLOR 1,0;PRINT "R"
1240 LOCATE 7,3,0:COLOR 3,0;PRINT "GLAUCOMAS PRETRABECULARES CON AFECTACION TRAB
ECULAR"
1250 LOCATE 9,3,0:COLOR 3,0;PRINT " - GL. CON GONIOSINEQUIAS"
1260 LOCATE 11,3,0:COLOR 3,0;PRINT " - GL. CRONICO ANGULO CERRADO"
1270 LOCATE 9,47,0:COLOR 3,0;PRINT "ESQ. TERAPEUTICO" ;LOCATE 9,71;PRINT "IRICOC
ICLORETRACCION"
1280 LOCATE 11,47,0:COLOR 3,0;PRINT "ESQ. TERAPEUTICO" ;LOCATE 11,71;PRINT "IRIDE
NCLEISIS"
1290 LOCATE 13,71;PRINT "PERIFERICA"
1300 LOCATE 15,71;PRINT "SUBESCLERAL"
1310 LOCATE 17,71;PRINT "TRABECULECTOMIA"
1320 GOSUB 3180
1330 COLOR 2,0:CLS
1340 GOSUB 3030
1350 LOCATE 2,34,0:COLOR 1,0;PRINT "R"
1360 LOCATE 7,3,0:COLOR 3,0;PRINT "GLAUCOMAS PRETRABECULARES CON AFECTACION TRAB
ECULAR (cont)"
1370 LOCATE 9,3,0:COLOR 3,0;PRINT " - EPITELIZACION CAMARA ANT."
1380 LOCATE 9,47,0:COLOR 3,0;PRINT "ADRENALINA" ;LOCATE 9,71;PRINT "RESECCION S
EGMENTO"
1390 LOCATE 11,71;PRINT "ANTERIOR CON QUE-"
1400 LOCATE 13,71;PRINT "RATOPLASTIA"
1410 LOCATE 17,3,0:COLOR 3,0;PRINT " - GLAUCOMA POR RUBEOSIS"
1420 LOCATE 17,47,0:COLOR 3,0;PRINT "ADRENALINA" ;LOCATE 17,71;PRINT "TRABECULEC

```

TOMIA"  
 1430 LOCATE 19,47,0:COLOR 3,0:PRINT "TIMOLOL" :LOCATE 19,71:PRINT "CICLOCRITERIA  
 PIA"  
 1440 LOCATE 21,47,0:COLOR 3,0:PRINT "DIURETICOS"  
 1450 GOSUB 3180  
 1460 GOTO 160  
 1470 COLOR 2,0:CLS  
 1480 GOSUB 3030  
 1490 LOCATE 2,34,0:COLOR 1,0:PRINT "R"  
 1500 LOCATE 7,3,0:COLOR 3,0:PRINT "GLAUCOMA TRABECULAR PRIMITIVO"  
 1510 LOCATE 9,3,0:COLOR 3,0:PRINT " - GLAUCOMA CRONICO SIMPLE"  
 1520 LOCATE 9,47,0:COLOR 3,0:PRINT "ESQ. TERAPEUTICO" :LOCATE 9,71:PRINT "TRABE  
 CULECTOMIA"  
 1530 GOSUB 3180  
 1540 COLOR 2,0:CLS  
 1550 GOSUB 3030  
 1560 LOCATE 2,34,0:COLOR 1,0:PRINT "R"  
 1570 LOCATE 7,3,0:COLOR 3,0:PRINT "GLAUCOMA TRABECULAR SECUNDARIO"  
 1580 LOCATE 9,3,0:COLOR 3,0:PRINT " - RUPTURA TRABECULAR (GL. POSTCONTUSION)"  
 1590 LOCATE 11,3,0:COLOR 3,0:PRINT "HIPEMA"  
 1600 LOCATE 13,3,0:COLOR 3,0:PRINT "IRIDODIALISIS"  
 1610 LOCATE 15,3,0:COLOR 3,0:PRINT "CICLODIALISIS"  
 1620 LOCATE 17,3,0:COLOR 3,0:PRINT "RECESION ANGULAR"  
 1630 LOCATE 19,3,0:COLOR 3,0:PRINT "LUXACION CRISTALINO"  
 1640 LOCATE 15,47,0:COLOR 3,0:PRINT "ESQ. TERAPEUTICO" :LOCATE 15,71:PRINT "TRAB  
 ECULECTOMIA"  
 1650 GOSUB 3180  
 1660 COLOR 2,0:CLS  
 1670 GOSUB 3030  
 1680 LOCATE 2,34,0:COLOR 1,0:PRINT "R"  
 1690 LOCATE 9,3,0:COLOR 3,0:PRINT " - INFILTRACION TRABECULAR"  
 1700 LOCATE 11,3,0:COLOR 3,0:PRINT "GL. FACOLITICO"  
 1710 LOCATE 13,3,0:COLOR 3,0:PRINT "GL. FAEOANFILACTICO"  
 1720 LOCATE 17,3,0:COLOR 3,0:PRINT "GL. POR MASAS"  
 1730 LOCATE 11,47,0:COLOR 3,0:PRINT "ADRENALINA"  
 ACCION CRISTALINO"  
 1740 LOCATE 13,47,0:COLOR 3,0:PRINT "MIDRIATICOS"  
 RACION MASAS" :LOCATE 13,71:PRINT "ASPI  
 1750 LOCATE 15,47,0:COLOR 3,0:PRINT "OSMOTICOS"  
 1760 LOCATE 17,47,0:COLOR 3,0:PRINT "CORTICOIDES"

```

1770 GOSUB 3180
1780 COLOR 2,0:CLS
1790 GOSUB 3030
1800 LOCATE 2,34,0:COLOR 1,0:PRINT "R" - DE ORIGEN CAPSULAR"
1810 LOCATE 7,3,0:COLOR 3,0:PRINT "GL. PSEUDOEXFILIATIVO"
1820 LOCATE 9,3,0:COLOR 3,0:PRINT "TERAPEUTICO" ;LOCATE 9,71:PRINT "TRAB
1830 LOCATE 9,47,0:COLOR 3,0:PRINT "ESQ. TERAPEUTICO" ;LOCATE 9,71:PRINT "TRAB
ECULECTOMIA"
1840 LOCATE 11,3,0:COLOR 3,0:PRINT " - DE ORIGEN ZONULAR"
1850 LOCATE 13,3,0:COLOR 3,0:PRINT "POR ALFAQUIMIOTRIPSINA"
1860 LOCATE 15,3,0:COLOR 3,0:PRINT " - POR SANGRE"
1870 LOCATE 17,3,0:COLOR 3,0:PRINT "GL. HEMOLITICO"
1880 LOCATE 17,47,0:COLOR 3,0:PRINT "ESQ. TERAPEUTICO" ;LOCATE 17,71:PRINT "TRAB
ECULECTOMIA"
1890 LOCATE 19,3,0:COLOR 3,0:PRINT " - POR PIGMENTO"
1900 LOCATE 21,3,0:COLOR 3,0:PRINT "GL. PIGMENTARIO"
1910 LOCATE 21,47,0:COLOR 3,0:PRINT "ESQ. TERAPEUTICO" ;LOCATE 21,71:PRINT "TRAB
ECULECTOMIA"
1920 GOSUB 3180
1930 COLOR 2,0:CLS
1940 GOSUB 3030
1950 LOCATE 2,34,0:COLOR 1,0:PRINT "R"
1960 LOCATE 9,3,0:COLOR 3,0:PRINT " - INFILMATORIO"
1970 LOCATE 11,3,0:COLOR 3,0:PRINT "GL. UVEITICO" ;LOCATE 11,71:PRINT "IRID
1980 LOCATE 11,47,0:COLOR 3,0:PRINT "MIDIRATICOS" ;LOCATE 11,71:PRINT "IRID
ECTOMIA TOTAL"
1990 LOCATE 13,47,0:COLOR 3,0:PRINT "ADRENALINA"
2000 LOCATE 15,47,0:COLOR 3,0:PRINT "CORTICOIDES"
2010 LOCATE 17,3,0:COLOR 3,0:PRINT "CRISIS GL. CICLITICAS" ;LOCATE 17,71:PRINT "TRAB
2020 LOCATE 17,47,0:COLOR 3,0:PRINT "CORTICOIDES" ;LOCATE 17,71:PRINT "TRAB
ECULECTOMIA"
2030 GOSUB 3180
2040 COLOR 2,0:CLS
2050 GOSUB 3030
2060 LOCATE 2,34,0:COLOR 1,0:PRINT "R" - OTRAS CAUSAS"
2070 LOCATE 9,3,0:COLOR 3,0:PRINT "GL. CORTISONICO"
2080 LOCATE 11,3,0:COLOR 3,0:PRINT "SUPRIMIR CORTICOIDES"
2090 LOCATE 11,47,0:COLOR 3,0:PRINT "GL. POR SIDEROSIS"
2100 LOCATE 15,3,0:COLOR 3,0:PRINT "GL. POR SIDEROSIS"
2110 GOSUB 3180

```

```

2120 GOTO 150
2130 ' CLASIFICACION DE LAS INTERVENCIONES SEGUN SU OBJETIVO CON ESPACIO SUBCONJUNTO
2140 COLOR 2,0:CLS
2150 LOCATE 1,1:COLOR 1,3:PRINT " CLASIFICACION DE LAS INTERVENCIONES SEGUN SU OBJETIVO "
2160 LOCATE 3,10:COLOR 2,1:PRINT " OBJETIVOS "
2170 LOCATE 5,5:COLOR 3,0:PRINT " 1 - COMUNICAR ENTRE SI LAS CAMARAS ANTERIOR Y POSTERIOR "
2180 LOCATE 7,5:COLOR 3,0:PRINT " 2 - ABRIR EL ANGULO IRIDOCORNEAL "
2190 LOCATE 9,5:COLOR 3,0:PRINT " 3 - COMUNICAR LA CAMARA ANTERIOR CON EL ESPACIO SUBCONJUNTIVO-TENONIANO "
2200 LOCATE 11,5:COLOR 3,0:PRINT " 4 - COMUNICAR LA CAMARA ANTERIOR CON LOS ESPACIOS SUPRACOROIDEOS "
2210 LOCATE 13,5:COLOR 3,0:PRINT " 5 - DISMINUIR LA PRODUCCION DE HUMOR ACUOSO "
2220 LOCATE 15,5:COLOR 3,0:PRINT " 6 - RESTAURAR EL EQUILIBRIO CONTINENTE-CONTENIDO "
2230 LOCATE 17,5:COLOR 3,0:PRINT " 7 - COMUNICAR LA CAMARA ANTERIOR CON LA CIRCULACION VENOSA "
2240 LOCATE 19,5:COLOR 3,0:PRINT " 8 - CIRUGIA DEL ANGULO IRIDOCORNEAL : CIRUGIA ETIOLOGICA "
2250 LOCATE 21,5:COLOR 3,0:PRINT " 9 - VOLVER AL MENU PRINCIPAL "
2260 LOCATE 24,36:COLOR 0,1:PRINT " PULSE LA OPCION DESEADA " :COLOR 2,0
2270 A$=INKEY$
2280 IF A$="1" THEN GOTO 2380
2290 IF A$="2" THEN GOTO 2590
2300 IF A$="3" THEN GOTO 2450
2310 IF A$="4" THEN GOTO 2670
2320 IF A$="5" THEN GOTO 2740
2330 IF A$="6" THEN GOTO 2840
2340 IF A$="7" THEN GOTO 2890
2350 IF A$="8" THEN GOTO 2940
2360 IF A$="9" THEN GOTO 10
2370 GOTO 2270
2380 CLS:LOCATE 1,1:COLOR 1,3:PRINT " COMUNICAR ENTRE SI LAS CAMARAS ANTERIOR Y POSTERIOR "
2390 LOCATE 7,5:COLOR 3,0:PRINT " - IRIDECTOMIA PERIFERICA "
2400 LOCATE 9,5:COLOR 3,0:PRINT " - IRIDECTOMIA SECTORIAL "
2410 LOCATE 11,5:COLOR 3,0:PRINT " - IRIDOTOMIA QUIRURGICA "
2420 LOCATE 13,5:COLOR 3,0:PRINT " - IRIDOTOMIA LASER "
2430 GOSUB 3180

```

2440 GOTO 2130  
 2450 CLS:LOCATE 1,1:COLOR 1,3:PRINT " COMUNICAR CAMARA ANT. CON ESPACION SUBCONJ  
 UNTIVO-TENONIANO"  
 2460 LOCATE 5,5:COLOR 3,0:PRINT "- ESCLEROTOMIAS" "EL EQUILIBRIO ENTRE NUEVE CONVENT  
 2470 LOCATE 7,15:COLOR 3,0:PRINT " SACABOCADOS"  
 2480 LOCATE 8,15:COLOR 3,0:PRINT " TIJERA"  
 2490 LOCATE 9,15:COLOR 3,0:PRINT " CUCHILLETE"  
 2500 LOCATE 10,15:COLOR 3,0:PRINT " CAUTERIO"  
 2510 LOCATE 11,15:COLOR 3,0:PRINT " TREPANO"  
 2520 LOCATE 13,5:COLOR 3,0:PRINT "- IRIDENCELEISIS" "CAMARA ANT. CON LA CIRCULACION  
 2530 LOCATE 15,5:COLOR 3,0:PRINT "- GONIOPUNTURAS"  
 2540 LOCATE 17,5:COLOR 3,0:PRINT "- MICROFORAGES"  
 2550 LOCATE 19,5:COLOR 3,0:PRINT "- IMPLANTES"  
 2560 LOCATE 21,5:COLOR 3,0:PRINT "- GONIOMIOSTOMIA"  
 2570 GOSUB 3180  
 2580 GOTO 2130  
 2590 CLS:LOCATE 1,1:COLOR 1,3:PRINT " ABRIR EL ANGULO IRIDOCORNEAL"  
 2600 LOCATE 7,15:COLOR 3,0:PRINT "- IRIDECTOMIA BASAL PERIFERICA"  
 2610 LOCATE 9,15:COLOR 3,0:PRINT " - IRIDECTOMIA BASAL EN SECTOR"  
 2620 LOCATE 11,15:COLOR 3,0:PRINT " - CRIOCOAGULACION LIMBICA"  
 2630 LOCATE 13,15:COLOR 3,0:PRINT " - GONIOPLASTIA (FOTOCOAGULACION DEL ULTIMO PL  
 IEQUE DEL IRIS)"  
 2640 LOCATE 15,15:COLOR 3,0:PRINT " - IRIDOCICLORETRACCION"  
 2650 GOSUB 3180  
 2660 GOTO 2130  
 2670 CLS:LOCATE 1,1:COLOR 1,3:PRINT " COMUNICAR LA CAMARA ANT. CON LOS ESPACIOS  
 SUPRACOROIDEOS"  
 2680 LOCATE 7,5:COLOR 3,0:PRINT "- CICLODIALISIS"  
 2690 LOCATE 9,5:COLOR 3,0:PRINT "- IMPLANTES"  
 2700 LOCATE 11,5:COLOR 3,0:PRINT "- GONIOMIOSTOMIA"  
 2710 LOCATE 13,5:COLOR 3,0:PRINT "- IRIDOCICLORETRACCION"  
 2720 GOSUB 3180  
 2730 GOTO 2130  
 2740 CLS:LOCATE 1,1:COLOR 1,3:PRINT " DISMINUIR LA PRODUCCION DE HUMOR ACUOSO"  
 2750 LOCATE 7,5:COLOR 3,0:PRINT "- CICLODIALISIS"  
 2760 LOCATE 9,5:COLOR 3,0:PRINT "- CICLODIATERMIA"  
 2770 LOCATE 11,5:COLOR 3,0:PRINT "- CICLOANEMIZACION"  
 2780 LOCATE 13,5:COLOR 3,0:PRINT "- CICLO CRYO-COAGULACION"  
 2790 LOCATE 15,5:COLOR 3,0:PRINT "- CICLOFOTOCOAGULACION"  
 2800 LOCATE 17,5:COLOR 3,0:PRINT "- GONIOMIOSTOMIA"

```

2810 LOCATE 19,5:COLOR 3,0:PRINT "- IRIDOCICLORETRACCION"
2820 GOSUB 3180
2830 GOTO 2130
2840 CLS:LOCATE 1,1:COLOR 1,3:PRINT " RESTAURAR EL EQUILIBRIO CONTINENTE-CONTENI
DO "
2850 LOCATE 9,5:COLOR 3,0:PRINT "- EXTRACCION DEL CRISTALINO"
2860 LOCATE 11,5:COLOR 3,0:PRINT "- VITRECTOMIA"
2870 GOSUB 3180
2880 GOTO 2130
2890 CLS:LOCATE 1,1:COLOR 1,3:PRINT " COMUNICAR LA CAMARA ANT. CON LA CIRCULACIO
N VENOSA"
2900 LOCATE 9,5:COLOR 3,0:PRINT "- FLEBOGONIOSTOMIA"
2910 LOCATE 11,5:COLOR 3,0:PRINT "- DRENAGE OCULO CARDIACO"
2920 GOSUB 3180
2930 GOTO 2130
2940 CLS:LOCATE 1,1:COLOR 1,3:PRINT " CIRUGIA DEL ANGULO IRIDOCORNEAL : CIRUGIA
ETIOLOGICA"
2950 LOCATE 9,5:COLOR 3,0:PRINT "- GONIOTOMIA"
2960 LOCATE 11,5:COLOR 3,0:PRINT "- GONIOTRABECULOTOMIA"
2970 LOCATE 13,5:COLOR 3,0:PRINT "- TRABECULOTOMIA AB EXTERNO"
2980 LOCATE 15,5:COLOR 3,0:PRINT "- SINUSOTOMIA"
2990 LOCATE 17,5:COLOR 3,0:PRINT "- TRABECULECTOMIA"
3000 GOSUB 3180
3010 GOTO 2130
3020 END
3030 ' SUBRUTINA CUADRO
3040 COLOR 2,0:CLS
3050 LOCATE 2,2,0:COLOR 3,0:PRINT " FORMULA DE GOLDMAN"
3060 LOCATE 2,25,0:COLOR 2,0:PRINT "PO = F . R + PV"
3070 LOCATE 4,19:COLOR 3,0:PRINT "CLASE"
3080 LOCATE 4,51:COLOR 3,0:PRINT "TRAT. MEDICO"
3090 LOCATE 4,76:COLOR 3,0:PRINT "TRAT. QUIRURGICO"
3100 FOR A=5 TO 45 STEP 20:LINE ( 0,799,225) ,1 :NEXT A
3110 LINE ( 0,225)-(799,225),1
3120 LINE ( 0,5)-( 0,225),1
3130 LINE ( 799,5)-(799,225),1
3140 LINE ( 166,5)-(166,225),1
3150 LINE ( 540,25)-(540,225),1
3160 LINE ( 355,25)-(355,225),1
3170 RETURN

```

```
3180 ' SUBRUTINA PULSE RETURN
3190 LOCATE 24,36:COLOR 0,1:PRINT " PULSE RETURN "
3200 A$=INKEY$
3210 IF A$=CHR$(13) THEN RETURN
3220 GOTO 3200
3230 RETURN
```

```

10 SCREEN 3:COLOR 1,3:CLS
20 DIM D(278),X(500),Y(500)
30 IF ACS=999 THEN GOTO 150
40 LOCATE 1,1,0:COLOR 3,1:PRINT "ASPECTO GONIOSCOPICO"
50 LOCATE 4,15,0:COLOR 0,3:PRINT "PULSOS LA OPCION DESEADA"
A"
60 LOCATE 7,20,0:COLOR 1,3:PRINT "1 - INTRODUCIR DATOS"
70 LOCATE 9,20,0:COLOR 1,3:PRINT "2 - LEER DATOS"
80 LOCATE 11,20,0:COLOR 1,3:PRINT "3 - VOLVER AL MENU PRINCIPAL"
90 A$=INKEY$
100 IF A$="1" THEN GOTO 140
110 IF A$="2" THEN CHAIN "B:PPP2.BAS"
120 IF A$="3" THEN CHAIN "B:MENU.BAS",400
130 GOTO 90
140 COLOR 3,1:CLS:LOCATE 10,17,0:INPUT "INTRODUCIR EL NUMERO DE REFERENCIA (LUEGO PULSE RETURN) ":"NUM$"
150 SCREEN 3:COLOR 2,0:CLS
160 LOCATE 1,1,0:COLOR 3,1:PRINT "ASPECTO GONIOSCOPICO"
170 LOCATE 5,5,0:COLOR 2,0:PRINT "12 1 2 3 4 5 6 7 8
9 10 11"
180 LINE (20,50)-(500,50),1:LINE (20,65)-(500,65),1:LINE (20,71)-(500,71),1:LINE
(20,74)-(500,74),1:LINE (20,80)-(500,80),1:LINE (20,95)-(500,95),1
190 A=68
200 FOR X=20 TO 500 STEP 4:PSET(X,68),2:NEXT
210 LOCATE 8,73,0:COLOR 2,0:PRINT "ESPOLON ESCLERAL":LOCATE 7,73,0:PRINT "BANDA
ESCLERAL/C. SCHLEMM":LOCATE 6,73,0:PRINT "ANILLO DE SCHWALBE":LOCATE 5,73,0:PR
INT "CORMEA":LOCATE 9,73,0:PRINT "BANDA CILIAR":LOCATE 10,73,0:PRINT "RIBETE IRI
DEO DE FUCHS"
220 LOCATE 11,73,0:PRINT "IRIS"
230 OPEN "I",#1,"B:NADA":CL=2:GOSUB 1780:CLOSE #1
240 IF ACS=999 THEN GOTO 2330
250 COD$=NUM$+"DGONIO"
260 OPEN "O",#2,COD$
270 GOSUB 1170
280 A$=INKEY$

```

```

290 IF A$="1" THEN WRITE #2,A$:GOSUB 1260:GOTO 360
300 IF A$="2" THEN WRITE #2,A$:GOSUB 1260:GOTO 500
310 IF A$="3" THEN WRITE #2,A$:GOSUB 1260:GOTO 650
320 IF A$="4" THEN WRITE #2,A$:A$="FIN":WRITE #2,A$:GOSUB 1260:CLOSE #2:GOTO 102
0
330 IF A$="5" THEN WRITE #2,A$:GOSUB 1260:GOTO 770
340 IF A$="6" THEN WRITE #2,A$:GOSUB 1260:GOTO 890
350 GOTO 280
360 'GONIOSINEQUIAS FILIFORMES Y CONOIDEAS
370 LOCATE 18,1,0:COLOR 2,0:PRINT" 1      2      3      4      5      6"
7     8"
380 FOR MAS=0 TO 420 STEP 60:CO=1:GOSUB 1110:NEXT
390   OPEN "I","#1,"B:GONISI1":CL=3:GOSUB 1780:CLOSE #1
400   OPEN "I","#1,"B:GONISI3":CL=3:GOSUB 1780:CLOSE #1
410   PAINT (279,190),3,3:PAINT (340,185),3,3:PAINT (397,187),3,3:PAINT (458,1
83),3,3
420 LOCATE 24,15:COLOR 3,1:PRINT " PULSE EL NUMERO ELEGIDO ":GOSUB 1590
430 PUT (20,50),D,XOR
440 GOSUB 1450
450 LOCATE 24,15:COLOR 3,1:PRINT " SEGUIR MISMO DIBUJOS(S/N)"
460 A$=INKEY$
470 IF A$="S" THEN GOTO 420
480 IF A$="N" THEN DD=9999:WRITE #2,DD:GOSUB 1370:LOCATE 24,15:COLOR 2,0:PRINT "
" :GOTO 270
490 GOTO 460
500 'GONIOSINEQUIAS LAMINARES
510 LOCATE 18,1,0:COLOR 2,0:PRINT" 1      2      3      4"
520 FOR MAS=0 TO 180 STEP 60:CO=1:GOSUB 1110:NEXT
530   OPEN "I","#1,"B:GONISI2":CL=3:GOSUB 1780:CLOSE #1
540   OPEN "I","#1,"B:GONISI4":CL=3:GOSUB 1780:CLOSE #1
550   OPEN "I","#1,"B:GONISI5":CL=3:GOSUB 1780:CLOSE #1
560 PAINT(41,186),3,3:PAINT(100,185),3,3:PAINT(159,181),3,3:PAINT(224,181),3,3
570 LOCATE 24,15:COLOR 3,1:PRINT " PULSE EL NUMERO ELEGIDO ":GOSUB 1590
580 PUT (20,50),D,XOR
590 GOSUB 1450
600 LOCATE 24,15:COLOR 3,1:PRINT " SEGUIR MISMO DIBUJOS(S/N)"
610 A$=INKEY$
620 IF A$="S" THEN GOTO 570
630 IF A$="N" THEN DD=9999:WRITE #2,DD:GOSUB 1370:LOCATE 24,15:COLOR 2,0:PRINT "
" :GOTO 270

```

```

640 GOTO 610
650 'VASOS NORMALES Y PATOLOGICOS
660 LOCATE 18,1,0:COLOR 2,0:PRINT" 1      2      3      4      5      6
7     8"
7     FOR MAS=0 TO 420 STEP 60:CO=1:GOSUB 1110:NEXT
670   OPEN "I",'#1,"B:VASOS1":CL=3:GOSUB 1780:CLOSE #1
680   LOCATE 24,15:COLOR 3,1:PRINT " PULSE EL NUMERO ELEGIDO " ;GOSUB 1590
690   PUT (20,50),D,XOR
700   GOSUB 1450
710   LOCATE 24,15:COLOR 3,1:PRINT "SEGUIR MISMO DIBUJOS(S/N)"
720   A$=INKEY$
730   IF A$="S" THEN GOTO 690
740   IF A$="N" THEN DD=9999:WRITE #2,DD:GOSUB 1370:LOCATE 24,15:COLOR 2,0:PRINT "
" ;GOTO 270
750
760 GOTO 730
770 'SANGRE ESCAMAS E IRIDECTOMIA
780 LOCATE 18,1,0:COLOR 2,0:PRINT" 1      2      3      4      5      6"
790 FOR MAS=0 TO 300 STEP 60:CO=1:GOSUB 1110:NEXT
800   OPEN "I",'#1,"B:SANG":CL=3:GOSUB 1780:CLOSE #1
810   LOCATE 24,15:COLOR 3,1:PRINT " PULSE EL NUMERO ELEGIDO " ;GOSUB 1590
820   PUT (20,50),D,XOR
830   GOSUB 1450
840   LOCATE 24,15:COLOR 3,1:PRINT "SEGUIR MISMO DIBUJOS(S/N)"
850   A$=INKEY$
860   IF A$="S" THEN GOTO 810
870   IF A$="N" THEN DD=9999:WRITE #2,DD:GOSUB 1370:LOCATE 24,15:COLOR 2,0:PRINT "
" ;GOTO 270
880 GOTO 850
890 'PIGMENTACION
900 'SANGRE ESCAMAS E TRIDECTOMIA
910 LOCATE 18,1,0:COLOR 2,0:PRINT" 1      2      3      4      5      6"
920 FOR MAS=0 TO 300 STEP 60:CO=1:GOSUB 1110:NEXT
930   OPEN "I",'#1,"B:PIGL":CL=2:GOSUB 1710:CLOSE #1
940   LOCATE 24,15:COLOR 3,1:PRINT " PULSE EL NUMERO ELEGIDO " ;GOSUB 1590
950   PUT (20,50),D,XOR
960   GOSUB 1450
970   LOCATE 24,15:COLOR 3,1:PRINT "SEGUIR MISMO DIBUJOS(S/N)"
980   A$=INKEY$
990   IF A$="S" THEN GOTO 940

```

```

1000 IF A$="N" THEN DD=9999:WRITE #2,DD:GOSUB 1370:LOCATE 24,15:COLOR 2,0:PRINT
"
1010 GOTO 980
1020 IF ACS=999 THEN GOTO 2340
1030 COLOR 0,3:CLS
1040 LOCATE 4,15,0:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I
D A "
1050 LOCATE 7,20,0:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESION "
1060 LOCATE 9,20,0:COLOR 1,3:PRINT " 2 - VOLVER AL MENU PRINCIPAL "
1070 A$=INKEY$
1080 IF A$=="1" THEN CHAIN "B:QQQ.BAS"
1090 IF A$=="2" THEN CHAIN "B:MENU.BAS",400
1100 GOTO 1070
1110 , CUADROS
1120 LINE(20+MAS,155)-(60+MAS,155),CO:LINE(20+MAS,200)-(60+MAS,200),CO:LINE(20+MAS,155)-(20+MAS,200),CO:LINE(60+MAS,155)-(60+MAS,200),CO
1130 RETURN
1140 , LINEAS VERDES CUADROS INFERIORES
1150 LINE(20,170)-(600,170),2:LINE(20,185)-(600,185),2:LINE(20,176)-(600,176),2:
1160 RETURN
1170 ' CUADRO OPCIONES DIBUJO
1180 LOCATE 12,2,0:COLOR 3,1:PRINT " O P C I O N E S D E D I B U J O "
1190 LOCATE 14,8,0:COLOR 3,0:PRINT " 1 - GONIOSINEQUIAS FILIFORMES Y CONOIDEAS"
1200 LOCATE 16,8,0:COLOR 3,0:PRINT " 2 - GONIOSINEQUIAS LAMINARES"
1210 LOCATE 18,8,0:COLOR 3,0:PRINT " 3 - VASOS NORMALES Y PATOLOGICOS"
1220 LOCATE 20,8,0:COLOR 3,0:PRINT " 4 - TERMINAR DE PINTAR"
1230 LOCATE 14,58,0:COLOR 3,0:PRINT " 5 - IRIDECTOMIA, ESCAMAS Y ESFERULAS"
1240 LOCATE 16,58,0:COLOR 3,0:PRINT " 6 - PIGMENTACION"
1250 RETURN
1260 ' BORRA CUADRO OPCIONES DIBUJO
1270 LOCATE 14,58,0:COLOR 0,0:PRINT "
1280 LOCATE 16,58,0:COLOR 0,0:PRINT "
1290 LOCATE 18,58,0:COLOR 0,0:PRINT "
1300 LOCATE 14,58,0:COLOR 0,0:PRINT "
1310 LOCATE 12,2,0:COLOR 0,0:PRINT "
1320 LOCATE 14,8,0:COLOR 0,0:PRINT "
1330 LOCATE 16,8,0:COLOR 0,0:PRINT "
1340 LOCATE 18,8,0:COLOR 0,0:PRINT "
1350 LOCATE 20,8,0:COLOR 0,0:PRINT "

```

```

1360 COLOR 2,0:RETURN
1370 'BORRA CUADROS
1380 LOCATE 16,1:COLOR 2,0:PRINT "
1390 LOCATE 17,1:COLOR 2,0:PRINT "
1400 LOCATE 18,1:COLOR 2,0:PRINT "
1410 LOCATE 19,1:COLOR 2,0:PRINT "
1420 LOCATE 20,1:COLOR 2,0:PRINT "
1430 LOCATE 21,1:COLOR 2,0:PRINT "
1440 RETURN
1450 ' MOVIMIENTO DEL DIBUJO
1460 A=0:B=0
1470 B$=INKEY$
1480 IF B$="4" THEN PUT (20+A,50+B),D,XOR:A=A-2:PUT (20+A,50+B),D,XOR:GOTO 1570
1490 IF B$="6" THEN PUT (20+A,50+B),D,XOR:A=A+2:PUT (20+A,50+B),D,XOR:GOTO 1570
1500 IF B$="8" THEN PUT (20+A,50+B),D,XOR:A=A :B=B-2:PUT (20+A,50+B),D,XOR:GOTO
1510 IF B$="2" THEN PUT (20+A,50+B),D,XOR:A=A :B=B+2:PUT (20+A,50+B),D,XOR:GOTO
1520 IF B$="3" THEN PUT (20+A,50+B),D,XOR:A=A+2:B=B+2:PUT (20+A,50+B),D,XOR:GOTO
1530 IF B$="7" THEN PUT (20+A,50+B),D,XOR:A=A-2:B=B-2:PUT (20+A,50+B),D,XOR:GOTO
1540 IF B$="9" THEN PUT (20+A,50+B),D,XOR:A=A+2:B=B-2:PUT (20+A,50+B),D,XOR:GOTO
1550 IF B$="1" THEN PUT (20+A,50+B),D,XOR:A=A-2:B=B+2:PUT (20+A,50+B),D,XOR:GOTO
1560 IF B$="F" THEN WRITE #2,A,B:GOTO 1580
1570 GOTO 1470
1580 RETURN
1590 ' ELECCION DEL DIBUJO
1600 A$=INKEY$
1610 IF A$="2" THEN DD=VAL(A$):WRITE #2,DD:MAS=60:CO=0:GOSUB 1110:GET (80,155)-(120,200),D:CO=3:GOSUB 1110:GOTO 1700
1620 IF A$="1" THEN DD=VAL(A$):WRITE #2,DD:MAS=0:CO=0:GOSUB 1110:GET (20,155)-(6

```

```

0,200),D:CO=3:GOSUB 1110:GOTO 1700
1630 IF A$="3" THEN DD=VAL(A$):WRITE #2,DD:MAS=120:CO=0:GOSUB 1110:GET (140,155)
-(180,200),D:CO=3:GOSUB 1110:GOTO 1700
1640 IF A$="4" THEN DD=VAL(A$):WRITE #2,DD:MAS=180:CO=0:GOSUB 1110:GET (200,155)
-(240,200),D:CO=3:GOSUB 1110:GOTO 1700
1650 IF A$="5" THEN DD=VAL(A$):WRITE #2,DD:MAS=240:CO=0:GOSUB 1110:GET (260,155)
-(300,200),D:CO=3:GOSUB 1110:GOTO 1700
1660 IF A$="6" THEN DD=VAL(A$):WRITE #2,DD:MAS=300:CO=0:GOSUB 1110:GET (320,155)
-(360,200),D:CO=3:GOSUB 1110:GOTO 1700
1670 IF A$="7" THEN DD=VAL(A$):WRITE #2,DD:MAS=360:CO=0:GOSUB 1110:GET (380,155)
-(420,200),D:CO=3:GOSUB 1110:GOTO 1700
1680 IF A$="8" THEN DD=VAL(A$):WRITE #2,DD:MAS=420:CO=0:GOSUB 1110:GET (440,155)
-(480,200),D:CO=3:GOSUB 1110:GOTO 1700
1690 GOTO 1600
1700 RETURN
1710 'LEER Y DIBUJAR PIGMENTOS
1720 INPUT #1,F,G
1730 IF EOF(1) THEN GOTO 1770
1740 IF F=9999 OR G=9999 THEN GOTO 1770
1750 PSET(F,G),2
1760 GOTO 1720
1770 RETURN
1780 'SUBRUTINA DIBUJO DE LA LINEA VERDE
1790 'DIM X(100),Y(100)
1800 T=1
1810 T=T+1
1820 IF EOF(1) THEN 1850
1830 INPUT #1,X(T),Y(T)
1840 GOTO 1810
1850 F=1
1860 F=F+1
1870 IF X(F)=0 OR X(F+1)=0 OR Y(F)=0 OR Y(F+1)=0 THEN GOTO 1860
1880 LINE (X(F),Y(F))-(X(F+1),Y(F+1)),CL :IF F= T-2 THEN RETURN
1890 GOTO 1860
1900 RETURN
1910 ' DIBUJO DE UNA LINEA A BASE DE CONTROL DEL CURSOR
1920 DIM X(400),Y(400)
1930 KEY OFF
1940 M=0:B=0
1950 LOCATE 2,30:COLOR 1,0:PRINT " DIBUJO DE LA LINEA VERDE ( CONTESTE S/N )"

```

```

1960 PRINT
1970 PRINT
1980 A$=INKEY$
1990 IF A$="S" OR A$="s" THEN GOTO 2020
2000 IF A$="N" OR A$="n" THEN GOTO 2100
2010 GOTO 1980
2020 LOCATE 2 ,30:COLOR 1,0:PRINT " DIBUJO DE LA LINEA
2030 CIRCLE ( 373,125) ,10,1
2040 GOTO 2160
2050 A=1:B=B+A
2060 IF B=M-1 THEN GOTO 60180
2070 IF X(B)=0 THEN GOTO 2050
2080 LINE(X(B),Y(B))-(X(B+1),Y(B+1)),2
2090 GOTO 2050
2100 , dibujo de todas las lineas
2110 R=1
2120 IF X(R)=0 OR X(R+1)=0 OR Y(R)=0 OR Y(R+1)=0 THEN R=R+2:GOTO 60390
2130 LINE(X(R),Y(R))-(X(R+1),Y(R+1)),2
2140 R=R+1:GOTO 3600
2150 END
2160 REM posicionamiento del cursor en la
2170 REM Y BORRA EL PUNTO ANTERIOR
2180 I=373:L=125
2190 PSET(I,L),3
2200 A$=INKEY$
2210 IF A$="4" THEN I=I-1:PSET(I,L),4:PSET(I+1,L),0
2220 IF A$="6" THEN I=I+1:PSET(I,L),4:PSET(I-1,L),0
2230 IF A$="8" THEN L=L-1:PSET(I,L),4:PSET(I,L+1),0
2240 IF A$="2" THEN L=L+1:PSET(I,L),4:PSET(I,L-1),0
2250 IF A$="7" THEN I=I-1 : L=L-1:PSET(I,L),4:PSET(I+1,L+1),0
2260 IF A$="9" THEN I=I+1 : L=L-1:PSET(I,L),4:PSET(I-1,L+1),0
2270 IF A$="1" THEN I=I-1 : L=L+1:PSET(I,L),4:PSET(I+1,L-1),0
2280 IF A$="3" THEN I=I+1 : L=L+1:PSET(I,L),4:PSET(I-1,L-1),0
2290 IF A$="M" OR A$="m" THEN PSET(X(M),Y(M)),4:M=M+1:X(M)=I:Y(M)=L:GOTO 2200
2300 IF A$="F" OR A$="f" THEN M=M+1:X(M)=0:Y(M)=0:GOTO 2320
2310 GOTO 2200
2320 GOTO 2050
2330 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"DGONIO":OPEN "O",#2,COD$:GOTO 27
0
2340 COMMON ACS,NUM$:CHAIN "B:QQQ.BAS",220

```

```

4 COMMON DDD$,ACS
5 IF ACS=111 THEN NU$=DDD$:COD$=NU$+"PAP":OPEN "I",#1,COD$:SCREEN 3:GOTO 650
10 ' PAPILLA
20 SCREEN 3:COLOR 1,3:CLS:COLOR 1,3:LOCATE 1,1,0:COLOR 3,1:PRINT "EXPLORA"
C I O N   D E   L A   P A P I L A "
30 LOCATE 4,15:COLOR 0,3:PRINT "P U L S E   L A   O P C I O N   E L E G I D A "
40 LOCATE 7,20:COLOR 1,3:PRINT "1 - INTRODUCIR DATOS"
50 LOCATE 9,20:COLOR 1,3:PRINT "2 - LEER DATOS"
60 LOCATE 11,20:COLOR 1,3:PRINT "3 - VOLVER AL MENU PRINCIPAL"
70 A$=INKEY$
80 IF A$="1" THEN GOTO 120
90 IF A$="2" THEN GOTO 600
100 IF A$="3" THEN CHAIN "B:MENU.BAS",400
110 GOTO 70
120 COLOR 3,1:CLS:LOCATE 10,17,8:INPUT "INTRODUZA EL NUMERO DE HISTORIAL (LUEG
O PULSE RETURN) : ",NUM$
130 IF ACS=999 THEN GOTO 1560
140 A$="PAP"
150 COD$=NUM$+A$
160 OPEN "O",#1,COD$
170 GOSUB 1100
180 B=39
190 FOR A=5 TO 21 STEP 2
200 LOCATE A,B,8:COLOR 2,0:INPUT "",B$
210 WRITE #1,B$
220 IF A=21 THEN GOTO 240
230 NEXT A
240 B=84
250 FOR A=5 TO 21 STEP 2
260 LOCATE A,B,8:COLOR 2,0:INPUT "",B$
270 WRITE #1,B$
280 IF A=21 THEN GOTO 300
290 NEXT A
300 B=44
310 FOR A=5 TO 21 STEP 2

```

```

320 LOCATE A,B,8:COLOR 2,0:INPUT "",B$
330 WRITE #1,B$
340 IF A=21 THEN GOTO 360
350 NEXT A
360 B=89
370 FOR A=5 TO 21 STEP 2
380 LOCATE A,B,8:COLOR 2,0:INPUT "",B$
390 WRITE #1,B$
400 IF A=21 THEN GOTO 420
410 NEXT A
420 GOTO 480
430 LOCATE 24,34:COLOR 0,0:PRINT ""
440 LOCATE 24,34:COLOR 1,3:PRINT " ESPERE UN MOMENTO "
450 CLOSE #1
460 IF ACS=999 THEN GOTO 1570
470 GOSUB 1550: ' PASO AL PROGRAMA DE ELECCION DE VASOS
    ' MAS DATOS PARA LA PAPILA
480 COLOR 2,0:CLS:SCREEN 3
490 LOCATE 1,1:COLOR 1,3:PRINT " EXPLORACION DE LA PAPILA
500 LOCATE 1,1:COLOR 1,3:PRINT " (CONT) "
510 LINE (0,45)-(799,45),1
520 LINE (0,65)-(799,65),1
530 LINE (120,45)-(120,65),1
540 LINE (0,45)-(0,65),1
550 LINE (799,45)-(799,65),1
560 LOCATE 6,2:COLOR 3,0:PRINT " OTROS DATOS "
570 LOCATE 6,18,8:COLOR 2,0:INPUT "",B$
580 WRITE #1,B$
590 GOTO 430
600 ' LEER DATOS
610 COLOR 1,3:CLS:LOCATE 10,17,8:COLOR 1,3:INPUT " INTRODUZCA EL NUMERO DE HISTO
    RIAL (LUEGO PULSE RETURN) : ",NUM$
620 A$="PAP"
630 COD$=NUM$+A$
640 OPEN "I",#1,COD$
650 GOSUB 1100
660 B=39
670 FOR A=5 TO 21 STEP 2
680 INPUT #1,B$:LOCATE A,B,0:COLOR 2,0:PRINT B$

```

```

690 IF A=21 THEN GOTO 780
700 NEXT A
710 B=84
720 FOR A=5 TO 21 STEP 2
730 INPUT #1,B$:LOCATE A,B,0:COLOR 2,0:PRINT B$
740 IF A=21 THEN GOTO 760
750 NEXT A
760 B=44
770 FOR A=5 TO 21 STEP 2
780 INPUT #1,B$:LOCATE A,B,0:COLOR 2,0:PRINT B$
790 IF A=21 THEN GOTO 810
800 NEXT A
810 B=89
820 FOR A=5 TO 21 STEP 2
830 INPUT #1,B$:LOCATE A,B,0:COLOR 2,0:PRINT B$
840 IF A=21 THEN GOTO 860
850 NEXT A
860 GOSUB 1030
870 GOTO 920
880 GOSUB 1030
890 CLOSE #1
900 IF ACS=111 THEN COMMON DDD$,ACS:CHAIN "B:JJJJ.BAS"
910 GOSUB 1550
920 , MAS DATOS PARA LA PAPILA
930 COLOR 2,0:CLS:SCREEN 3
940 LOCATE 1,1:COLOR 1,3:PRINT " EXPLORACION DE LA PAPILA
(CONT)
950 LINE (0,45)-(799,45),1
960 LINE (0,65)-(799,65),1
970 LINE (120,45)-(120,65),1
980 LINE (0,45)-(0,65),1
990 LINE (799,45)-(799,65),1
1000 LOCATE 6,2:COLOR 3,0:PRINT " OTROS DATOS "
1010 INPUT #1,B$:LOCATE 6,18,0:COLOR 2,0:PRINT B$
1020 GOTO 880
1030 , SUBRUTINA PULSE RETURN
1040 LOCATE 24,38:COLOR 0,1:PRINT " PULSE RETURN "
1050 LOCATE 24,38:COLOR 0,1:PRINT " PULSE RETURN "
1060 A$=INKEY$

```

```

1070 IF A$=CHR$(13) THEN RETURN
1080 GOTO 1060
1090 RETURN
1100 ' SUBRUTINA CUADRO EXPLORACION DE LA PAPILA
1110 COLOR 2,0:CLS:SCREEN 3
1120 LOCATE 1,1:COLOR 1,3:PRINT " EXPLORACION DE LA PAPILA"
A"
1130 LINE (0, 15)-(730, 15),1
1140 LINE (0, 35)-(730, 35),1
1150 LINE (0, 55)-(730, 55),1
1160 LINE (0, 75)-(730, 75),1
1170 LINE (0, 95)-(730, 95),1
1180 LINE (0, 115)-(730, 115),1
1190 LINE (0, 135)-(730, 135),1
1200 LINE (0, 155)-(730, 155),1
1210 LINE (0, 175)-(730, 175),1
1220 LINE (0, 195)-(730, 195),1
1230 LINE (0, 215)-(730, 215),1
1240 LINE (290, 15)-(290, 215),1
1250 LINE (330, 15)-(330, 215),1
1260 LINE (370, 15)-(370, 215),1
1270 LINE (650, 15)-(650, 215),1
1280 LINE (690, 15)-(690, 215),1
1290 LINE (730, 15)-(730, 215),1
1300 LINE (0, 15)-(0, 215),1
1310 LOCATE 3,38,0:COLOR 3,0:PRINT "O.D. O.I."
1320 LINE (330, 15)-(330, 215),1
1330 LINE (690, 15)-(690, 215),1
1340 LOCATE 3,83:COLOR 3,0:PRINT "O.D. O.I."
1350 LINE (690, 15)-(690, 215),1
1360 LOCATE 5,2:COLOR 3,0:PRINT "AREA SONROSADA"
1370 LOCATE 7,2:COLOR 3,0:PRINT "DIAMETRO HORIZONTAL"
1380 LOCATE 9,2:COLOR 3,0:PRINT "DIAMETRO VERTICAL"
1390 LOCATE 11,2:COLOR 3,0:PRINT "COEFICIENTE EXCAVACION/PAPILA"
1400 LOCATE 13,2:COLOR 3,0:PRINT "AMPLIACION EXCAVACION FISIOLOGICA"
1410 LOCATE 15,2:COLOR 3,0:PRINT "RECESO O DESVIACION NASAL DE VASOS"
1420 LOCATE 17,2:COLOR 3,0:PRINT "ACOTADURA VASOS BORDE TEMP.PAPILAR"
1430 LOCATE 19,2:COLOR 3,0:PRINT "PALIDEZ TEMPORAL"
1440 LOCATE 21,2:COLOR 3,0:PRINT "HEMORRAGIAS PAPILARES"
1450 LOCATE 5,49:COLOR 3,0:PRINT "HALO PERIPAPILAR"

```

```
1460 LOCATE 7,49:COLOR 3,0:PRINT "EXCAVACION AMPULIFORME"
1470 LOCATE 9,49:COLOR 3,0:PRINT "PAPILLA PALIDA"
1480 LOCATE 11,49:COLOR 3,0:PRINT "EXCAVACION MARGINAL"
1490 LOCATE 13,49:COLOR 3,0:PRINT "EXCAVACION TOTAL"
1500 LOCATE 15,49:COLOR 3,0:PRINT "FONDO EXCAVACION PROFUNDO"
1510 LOCATE 17,49:COLOR 3,0:PRINT "MOTTEADO CRIBOSO VISIBLE"
1520 LOCATE 19,49:COLOR 3,0:PRINT "INTENSO RECESO NASAL VASOS"
1530 LOCATE 21,49:COLOR 3,0:PRINT "GRAN INFLEXION VASCULAR MARGINAL"
1540 RETURN
1550 CHAIN "B:JJJJ.BAS"
1560 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"PAP":OPEN "O",#1,COD$:GOTO 170
1570 COMMON ACS,NUM$:CHAIN "B:JJJJ.BAS"
```

```

10 COMMON DDD$,ASC
20 IF ASC=111 THEN GOTO 2620
30 SCREEN 3:COLOR 1,3:CLS:COLOR 3,1:LOCATE 1,1:PRINT " E S Q U E M A   D E   D I
B U J O   D E L   C A M P O   V I S U A L "
40 COLOR 3,1:LOCATE 2,1:PRINT " D E L   O J O   I Z Q U I E R D O "
50 LOCATE 4,15:COLOR 0,3:PRINT " P U L   S E   L A   O P C I O N   E L E G I D A "
60 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS"
70 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS"
80 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL"
90 A$=INKEY$
100 IF A$="1" THEN GOTO 140
110 IF A$="2" THEN GOTO 2620
120 IF A$="3" THEN CHAIN "B:MENU.BAS",400
130 GOTO 90
140 COLOR 3,1:CLS:LOCATE 10,17,8:INPUT " INTRODUZA EL NUMERO DE HISTORIAL (LUEGO
PULSE RETURN) : ",NUM$
150 DIM X(500),Y(500),COL(20),SPOT(10),CX(50),CY(50)
160 KEY OFF:CLS:SCREEN 1
170 Z=0:M=0:B=0:C=4:Q=0:ESC=0
180 FOR R=1 TO 900 :NEXT R
190 Z=Z+1
200 CLS:
210 COLOR 2,0:CLS:LOCATE 1,1:COLOR 4,1:PRINT " PULSE LA OPCION ELEGIDA "
220 LOCATE 5,2:COLOR 7,0:PRINT " 1 - DIBUJAR UNA ISOPTERA"
230 LOCATE 7,2:COLOR 7,0:PRINT " 2 - SOMBREAR ALGUNA ZONA (ESCOTOMA)"
240 LOCATE 9,2:COLOR 7,0:PRINT " 3 - DIBUJAR TODO EL CAMPO"
250 A$=INKEY$
260 IF A$="1" THEN GOTO 300
270 IF A$="2" THEN GOTO 420
280 IF A$="3" THEN GOTO 450
290 GOTO 250
300 CLS:COLOR 4,1:PRINT " DIBUJO DE LA ISOPTERA NUMERO " ;Z:FOR R=1 TO 500 :NEXT
R:COLOR 2,0
310 GOSUB 1370
320 CLS

```

```

330 GOSUB 780
340 GOSUB 1050
350 GOSUB 1630
360 GOSUB 610
370 A=1:B=B+A
380 IF B=M-1 THEN GOTO 180
390 IF X(B)=0 THEN GOTO 370
400 LINE(X(B),Y(B))-(X(B+1),Y(B+1)),COL(Q)
410 GOTO 370
420 ESC=ESC+1
430 GOSUB 1950
440 CLS
450 SCREEN 1:CLS:LOCATE 10,7,0:COLOR 4,8:PRINT " DIBUJO DE TODO EL CAMPO " :FOR R
=1 TO 900 :NEXT R
460 CLS:GOSUB 780:PAINT (176,120),8,7:GOSUB 1050:COLOR 2,0
470 Q=1
480 GOSUB 1630
490 R=1
500 IF R=B THEN GOTO 540
510 IF X(R)=0 OR X(R+1)=0 OR Y(R)=0 OR Y(R+1)=0 THEN R=R+2: Q=Q+1: GOSUB 1
520 LINE(X(R),Y(R))-(X(R+1),Y(R+1)),COL(Q)
530 R=R+1:GOTO 500
540 FOR QW=1 TO ESC:PAINT (CX(QW),CY(QW),0,14:NEXT QW
550 LOCATE 24,2:PRINT "PONER PUNTO CENTRAL ? (S/N)"
560 A$=INKEY$
570 IF A$="S" THEN X(B+2)=176:Y(B+2)=120:GOTO 600
580 IF A$="N" THEN GOTO 600
590 GOTO 560
600 GOSUB 2430:GOSUB 2920:GOSUB 2990:END
610 REM Posicionamiento del cursor en la
620 REM Y BORRA EL PUNTO ANTERIOR
630 I=176:L=120
640 PSET(I,L),3
650 A$=INKEY$
660 IF A$="4" THEN I=I-1:PSET(I,L),4:PSET(I+1,L),0
670 IF A$="6" THEN I=I+1:PSET(I,L),4:PSET(I-1,L),0
680 IF A$="8" THEN L=L-1:PSET(I,L),4:PSET(I,L+1),0
690 IF A$="2" THEN L=L+1:PSET(I,L),4:PSET(I,L-1),0
700 IF A$="7" THEN I=I-1 : L=L-1:PSET(I,L),4:PSET(I+1,L+1),0

```

```

710 IF A$="9" THEN I=I+1 : L=L-1 : PSET( I,L ), 4 : PSET( I-1,L+1 ), 0
720 IF A$="1" THEN I=I-1 : L=L+1 : PSET( I,L ), 4 : PSET( I+1,L-1 ), 0
730 IF A$="3" THEN I=I+1 : L=L+1 : PSET( I,L ), 4 : PSET( I-1,L-1 ), 0
740 IF A$="M" OR A$="m" THEN PSET( X(M),Y(M) ), 4 : M=M+1 : X(M)=I : Y(M)=L : GOTO 650
750 IF A$="F" OR A$="f" THEN M=M+1 : X(M)=0 : Y(M)=0 : GOTO 770
760 GOTO 650
770 RETURN
780 REM SUBRUTINA DIBUJO PANTILLA CAMPO VISUAL
790 LOCATE 1,1,0:PSET( 176,120 ),7
800 FOR D=0 TO 360 STEP 15
810 DRAW "TA=D;NU135"
820 NEXT D
830 FOR I= 0 TO 135 STEP 15
840 CIRCLE STEP(0,0),I,7
850 NEXT I
860 LINE (116,0)-(238,0),7
870 LINE (114,239)-(238,239),7
880 CIRCLE(176,120),15,4
890 PAINT(176,120),0,4
900 CIRCLE(176,120),15,7
910 RETURN
920 ' SUBRUTINA COLOCACION DEL CUADRO DE INTENSIDADES LUMINICAS Y
930 ' TAMAÑO DEL SPOT
940 SCREEN 1
950 LOCATE 19,1:PRINT "I"
960 LOCATE 20,1:PRINT "II"
970 LOCATE 21,1:PRINT "III"
980 LOCATE 22,1:PRINT "IV"
990 LOCATE 18,4:PRINT "4"
1000 LOCATE 18,5:PRINT "3"
1010 LOCATE 18,6:PRINT "2"
1020 LOCATE 18,7:PRINT "1"
1030 LINE (0,169)-(56,169),15
1040 LINE (0,179)-(56,179),15
1050 LINE (0,189)-(56,189),15
1060 LINE (0,199)-(56,199),15
1070 LINE (0,209)-(56,209),15
1080 LINE (0,219)-(56,219),15
1090 LINE (0,169)-(0,219),15
1100 LINE (23,169)-(23,219),15

```

```

1110 LINE (32,169)-(32,219),15
1120 LINE (40,169)-(40,219),15
1130 LINE (48,169)-(48,219),15
1140 LINE (56,169)-(56,219),15
1150 LINE (0,169)-(23,179),15
1160 LINE (0,179)-(23,169),15
1170 LOCATE 1,1 :PRINT ""
1180 RETURN
1190 'SUBRUTINA ELECCION DEL SPOT,FILTRO Y COLOR
1200 PRINT
1210 PRINT:COLOR 7
1220 PRINT "SPOT ..... VI , III , II , I"
1230 PRINT
1240 PRINT "FILTRO ..... 4 , 3 , 2 , 1"
1250 PRINT
1260 PRINT "COLOR ..... 1 = MARRON"
1270 PRINT " 2 = AZUL"
1280 PRINT " 3 = ROJO"
1290 PRINT " 4 = VERDE"
1300 PRINT " 5 = AMARILLO (SOLO PARA DIBUJAR ESCOTOMAS)"
1310 PRINT
1320 PRINT
1330 PRINT
1340 COLOR 4 :PRINT "INSTRUCCIONES: CUALQUIERA DE LOS DATOS QUE INTRODUZCA A C
ONTINUACION NO PUEDE SER UN NUMERO ROMANO)
1350 PRINT "(PULSE RETURN DESPUES)"
1360 PRINT :COLOR 7
1370 Q=Q+1
1380 INPUT "SPOT (NO LO PONGA CON NUMERACION ROMANA): ", SPOT(Q)
1390 INPUT "FILTRO: ", FILTRO(Q)
1400 INPUT "COLOR: ", A
1410 IF A=1 THEN COL(Q)=6
1420 IF A=2 THEN COL(Q)=1
1430 IF A=3 THEN COL(Q)=4
1440 IF A=4 THEN COL(Q)=2
1450 IF A=5 THEN COL(Q)=14
1460 COLOR 2:RETURN
1470 , SUBRUTINA DIBUJO DE LOS COLORES EN EL CUADRO INFERIOR
1480 IF SPOT(Q) = 4 AND FILTRO(Q)=4 AND COL(Q)<14 THEN PAINT (24,210),COL
(Q),15

```

```

1490 IF SPOT(Q) = 4 AND FILTRO(Q)=3 AND COL(Q)<>14 THEN PAINT (33,210),COL(Q)
'15 IF SPOT(Q)=4 AND FILTRO(Q)=2 AND COL(Q)<>14 THEN PAINT (41,210),COL(Q),
1500 IF SPOT(Q) = 4 AND FILTRO(Q)=1 AND COL(Q)<>14 THEN PAINT (49,210),COL(Q,
1510 IF SPOT(Q) = 4 AND FILTRO(Q)=1 AND COL(Q)<>14 THEN PAINT (49,210),COL(Q
)'15 )'15
1520 IF SPOT(Q) = 3 AND FILTRO(Q)=4 AND COL(Q)<>14 THEN PAINT (24,200),COL(Q
)'15 )'15
1530 IF SPOT(Q) = 3 AND FILTRO(Q)=3 AND COL(Q)<>14 THEN PAINT (33,200),COL(
Q),'15
1540 IF SPOT(Q) = 3 AND FILTRO(Q)=2 AND COL(Q)<>14 THEN PAINT (41,200),COL(
Q),'15
1550 IF SPOT(Q) = 3 AND FILTRO(Q)=1 AND COL(Q)<>14 THEN PAINT (49,200),COL(
Q),'15
1560 IF SPOT(Q) = 2 AND FILTRO(Q)=4 AND COL(Q)<>14 THEN PAINT (24,190),COL(Q
)'15 )'15
1570 IF SPOT(Q) = 2 AND FILTRO(Q)=3 AND COL(Q)<>14 THEN PAINT (33,190),COL(Q
)'15 )'15
1580 IF SPOT(Q) = 2 AND FILTRO(Q)=2 AND COL(Q)<>14 THEN PAINT (41,190),COL(Q
)'15 )'15
1590 IF SPOT(Q) = 2 AND FILTRO(Q)=1 AND COL(Q)<>14 THEN PAINT (49,190),COL(Q
)'15 )'15
1600 IF SPOT(Q) = 1 AND FILTRO(Q)=4 AND COL(Q)<>14 THEN PAINT (24,180),COL(Q
)'15 )'15
1610 IF SPOT(Q) = 1 AND FILTRO(Q)=3 AND COL(Q)<>14 THEN PAINT (33,180),COL(Q
)'15 )'15
1620 IF SPOT(Q) = 1 AND FILTRO(Q)=2 AND COL(Q)<>14 THEN PAINT (41,180),COL(Q
)'15 )'15
1630 IF SPOT(Q) = 1 AND FILTRO(Q)=1 AND COL(Q)<>14 THEN PAINT (49,180),COL(Q
)'15 )'15
1640 IF COL(Q) = 14 GOTO 1660
1650 RETURN
1660 IF SPOT(Q) = 4 AND FILTRO(Q)=4 THEN LINE (23,209)-(32,219),15:PAINT (30
'211),COL(Q),15
1670 IF SPOT(Q)= 3 AND FILTRO(Q)=4 THEN LINE(23,199)-(32,209),15:PAINT (30,2
01),COL(Q),15
1680 IF SPOT(Q)=2 AND FILTRO(Q)=4 THEN LINE(23,189)-(32,199),15:PAINT (30,19
1),COL(Q),15
1690 IF SPOT(Q) = 1 AND FILTRO(Q)=4 THEN LINE(23,179)-(32,189),15:PAINT (30,
181),COL(Q),15

```

```

1700 IF SPOT(Q) = 4 AND FILTRO(Q)=3 THEN LINE(32,209)-(40,219),15:PAINT (38,
211),COL(Q),15
1710 IF SPOT(Q) = 3 AND FILTRO(Q)=3 THEN LINE(32,199)-(40,209),15:PAINT (38
,201),COL(Q),15
1720 IF SPOT(Q) = 2 AND FILTRO(Q)=3 THEN LINE(32,189)-(40,199),15:PAINT (38
,191),COL(Q),15
1730 IF SPOT(Q) = 1 AND FILTRO(Q)=3 THEN LINE(32,179)-(40,189),15:PAINT (38
,181),COL(Q),15
1740 IF SPOT(Q) = 4 AND FILTRO(Q)=2 THEN LINE(40,209)-(48,219),15:PAINT (46,
211),COL(Q),15
1750 IF SPOT(Q) = 3 AND FILTRO(Q)=2 THEN LINE(40,199)-(48,209),15:PAINT (46,
201),COL(Q),15
1760 IF SPOT(Q) = 2 AND FILTRO(Q)=2 THEN LINE(40,189)-(48,199),15:PAINT (46,
191),COL(Q),15
1770 IF SPOT(Q) = 1 AND FILTRO(Q)=2 THEN LINE(40,179)-(48,189),15:PAINT (46,
181),COL(Q),15
1780 IF SPOT(Q) = 4 AND FILTRO(Q)=1 THEN LINE(48,209)-(56,219),15:PAINT (54,2
11),COL(Q),15
1790 IF SPOT(Q) = 3 AND FILTRO(Q)=1 THEN LINE(48,199)-(56,209),15:PAINT (54,2
01),COL(Q),15
1800 IF SPOT(Q) = 2 AND FILTRO(Q)=1 THEN LINE(48,189)-(56,199),15:PAINT (54,1
91),COL(Q),15
1810 IF SPOT(Q) = 1 AND FILTRO(Q)=1 THEN LINE(48,179)-(56,189),15:PAINT (54,1
81),COL(Q),15
1820 RETURN
1830 'SUBRUTINA DIBUJO DEL COLOR DE CADA ISOPTERA
1840 'DIBUJO DE TODO EL CAMPO
1850 CLS:LOCATE 10,7:PRINT "DIBUJO DE TODO EL CAMPO":FOR R=1 TO 900 :NEXT R
1860 CLS:GOSUB 780:GOSUB 1050
1870 Q=1
1880 GOSUB 1630
1890 R=1
1900 IF R=B THEN Q=Q+1:RETURN
1910 IF X(R)=0 OR Y(R)=0 OR Y(R+1)=0 THEN R=R+2: Q=Q+1: GOSUB
1630:GOTO 1900
1920 LINE(X(R),Y(R))-(X(R+1),Y(R+1)),COL(Q)
1930 R=R+1:GOTO 1900
1940 RETURN
1950 ' SURUTINA DIBUJO DE ESCOTOMAS
1960 CLS:COLOR 4,1:PRINT "DIBUJO DEL ESCOTOMA":FOR R=1 TO 500 :NEXT R:COLOR 2

```

```

1970 GOSUB 1370
1980 CLS
1990 GOSUB 1840
2000 GOSUB 2260
2010 A=1 : B=B+A
2020 IF B=M-1 THEN GOTO 2060
2030 IF X(B)=0 THEN GOTO 2010
2040 LINE(X(B),Y(B))-(X(B+1),Y(B+1)),14
2050 GOTO 2010
2060 LOCATE 24,2:COLOR 2,0:PRINT "PUNTO SOMBREAR"
2070 GOSUB 2090
2080 GOTO 180
2090 'DIBUJAR EL ESCOTOMA
2100 REM posicionamiento del cursor en la
2110 REM Y BORRA EL PUNTO ANTERIOR
2120 I=176:L=120
2130 PSET(I,L),3
2140 A$=INKEY$
2150 IF A$="4" THEN I=I-1:PSET(I,L),4:PSET(I+1,L),0
2160 IF A$="6" THEN I=I+1:PSET(I,L),4:PSET(I-1,L),0
2170 IF A$="8" THEN L=L-1:PSET(I,L),4:PSET(I,L+1),0
2180 IF A$="2" THEN L=L+1:PSET(I,L),4:PSET(I,L-1),0
2190 IF A$="7" THEN I=I-1 : L=L-1:PSET(I,L),4:PSET(I+1,L+1),0
2200 IF A$="9" THEN I=I+1 : L=L-1:PSET(I,L),4:PSET(I-1,L+1),0
2210 IF A$="1" THEN I=I-1 : L=L+1:PSET(I,L),4:PSET(I+1,L-1),0
2220 IF A$="3" THEN I=I+1 : L=L+1:PSET(I,L),4:PSET(I-1,L-1),0
2230 IF A$="M" OR A$="m" THEN CX(ESC)=I:CY(ESC)=L:GOTO 2250
2240 GOTO 2140
2250 RETURN
2260 REM posicionamiento del cursor en la
2270 REM Y BORRA EL PUNTO ANTERIOR
2280 I=176:L=120
2290 PSET(I,L),3
2300 A$=INKEY$
2310 IF A$="4" THEN I=I-1:PSET(I,L),4:PSET(I+1,L),0
2320 IF A$="6" THEN I=I+1:PSET(I,L),4:PSET(I-1,L),0
2330 IF A$="8" THEN L=L-1:PSET(I,L),4:PSET(I,L+1),0
2340 IF A$="2" THEN L=L+1:PSET(I,L),4:PSET(I,L-1),0
2350 IF A$="7" THEN I=I-1 : L=L-1:PSET(I,L),4:PSET(I+1,L+1),0
2360 IF A$="9" THEN I=I+1 : L=L-1:PSET(I,L),4:PSET(I-1,L+1),0

```

```

2370 IF A$="L" THEN I=I-1 : L=L+1:PSET(I,L),4:PSET(I+1,L-1),0
2380 IF A$="3" THEN I=I+1 : L=L+1:PSET(I,L),4:PSET(I-1,L-1),0
2390 IF A$="M" OR A$="m" THEN PSET(X(M),Y(M),4:M=M+1:X(M)=I:Y(M)=L:GOTO 2300
2400 IF A$="F" OR A$="f" THEN M=M+1:X(M)=0:Y(M)=0:GOTO 2420
2410 GOTO 2300
2420 RETURN
2430 IF ACS=999 THEN GOTO 2600
2440 A$="CEM":COD$=NUM$+A$
2450 OPEN "O",#1,COD$
2460 WRITE #1,Z,ESC,B
2470 FOR G=1 TO Z
2480 WRITE #1,SPOT(G),FILTRO(G),COL(G)
2490 NEXT G
2500 FOR G=1 TO B
2510 WRITE #1,X(G),Y(G)
2520 NEXT G
2530 FOR G=1 TO ESC
2540 WRITE #1,CX(G),CY(G)
2550 NEXT G
2560 WRITE #1,X(B+1),Y(B+1),X(B+2),Y(B+2)
2570 CLOSE #1
2580 IF ACS=999 THEN GOTO 2610
2590 RETURN
2600 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"CEM":OPEN "O",#1,COD$:GOTO 2460
2610 COMMON ACS,NUM$:CHAIN "B:SSS.BAS",210
2620 , LEER LOS DATOS Y DIBUJARLOS
2630 DIM SPOT(10),FILTRO(10),COL(20),X(150),Y(150),CX(50),CY(50),ESX(20),ESY(20)
'CCOL$(25),YY(50),AA(50)
2640 IF ACS=111 THEN NUM$=DDD$:GOTO 2660
2650 SCREEN 3:COLOR 1,3:CLS:LOCATE 10,17,8:INPUT "INTRODUZCA EL NUMERO DE HISTOR
IAL (LUEGO PULSE RETURN) :" ,NUM$
2660 SCREEN 1:COLOR 4,8:A$="CEM":COD$=NUM$+A$
2670 OPEN "I",#1,COD$
2680 INPUT #1,Z,ESC,B
2690 FOR G=1 TO Z
2700 INPUT #1,SPOT(G),FILTRO(G),COL(G)
2710 NEXT G
2720 FOR G=1 TO B
2730 INPUT #1,X(G),Y(G)
2740 NEXT G

```

```

2750 FOR G=1 TO ESC
2760 INPUT #1,CX(G),CY(G) THEN GOTO 3160
2770 NEXT G
2780 SCREEN 1:CLS:LOCATE 10,7:COLOR 4,8:PRINT " DIBUJO DE TODO EL CAMPO " ;FOR
2790 R=1 TO 900 :NEXT R
2790 CLS:GOSUB 780:PAINT (176,120),8,7:GOSUB 1050:COLOR 2,0
2800 Q=1
2810 GOSUB 1630
2820 R=1
2830 IF R=B THEN GOTO 2870
2840 IF X(R)=0 OR X(R+1)=0 OR Y(R)=0 OR Y(R+1)=0 THEN R=R+2: Q=Q+1: GOSUB
1630:GOTO 2830
2850 LINE(X(R),Y(R))-(X(R+1),Y(R+1)),COL(Q)
2860 R=R+1:GOTO 2830
2870 FOR QW=1 TO ESC:PAINT (CX(QW),CY(QW)),0,14:NEXT QW
2880 INPUT #1,X(B+1),Y(B+1),X(B+2),Y(B+2)
2890 IF X(B+2)=176 THEN PSET(176,120),5
2900 CLOSE #1 :IF CONTROL=33 THEN GOTO 41000
2910 GOSUB 3100:GOSUB 2990:END
2920 , SUBRUTINA PULSE RETURN
2930 LOCATE 24,1 :COLOR 2,0:PRINT "
2940 LOCATE 24,10:COLOR 2,0:PRINT "
2950 A$=INKEY$
2960 IF A$=CHR$(13) THEN RETURN
2970 GOTO 2950
2980 RETURN
2990 , SUBRUTINA VOVER MENU
3000 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
3010 SCREEN 3:COLOR 1,3:CLS
3020 LOCATE 1,1:COLOR 3,1:PRINT " P U L S E L A O P C I O N E L E G I D A "
" 3030 LOCATE 7,21:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESION"
3040 LOCATE 11,21:COLOR 1,3:PRINT " 2 - VOLVER AL MENU PRINCIPAL"
3050 A$=INKEY$
3060 IF A$="1" THEN CHAIN "B:SSS.BAS"
3070 IF A$="2" THEN CHAIN "B:MENU.BAS"
3080 GOTO 3050
3090 RETURN
3100 , subrutina exploracion eje
3110 LOCATE 24,5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "

```

```

3120 A$=INKEY$          THEN GOTO 3160
3130 IF A$="S" OR A$="s" THEN GOTO 3160
3140 IF A$="N" OR A$="n" THEN GOSUB 2990
3150 GOTO 3120
3160 LOCATE 24, 5:COLOR 4,7:PRINT " EN SECCION      ( S/N )
3170 A$=INKEY$          " "
3180 IF A$="S" OR A$="s" THEN GOTO 3260
3190 IF A$="N" OR A$="n" THEN GOTO 3210
3200 GOTO 3170
3210 LOCATE 24, 5:COLOR 4,7:PRINT " EN RELIEVE     ( S/N )
3220 A$=INKEY$          " "
3230 IF A$="S" OR A$="s" THEN GOTO 3780
3240 IF A$="N" OR A$="n" THEN RETURN
3250 GOTO 3220
3260 LOCATE 24, 5:COLOR 4,7:PRINT " GRADO /HORIZONTAL ( G/H )   "
3270 A$=INKEY$          "
3280 IF A$="G" OR A$="g" THEN CHAIN "B:GRADO1.BAS"
3290 IF A$="H" OR A$="h" THEN GOTO 30000
3300 GOTO 3270
3310 E=0:M=0 :I=23:L= 23:CIRCLE ( I,L ),10,4:PAINT ( I,L ),0,4
3320 LOCATE 24,1:PRINT " " " "
3330 LOCATE 24,1:PRINT " MOVER CURSOR
3340 A$=INKEY$          "
3350 IF A$="4" THEN I=I-1:PSET( I,L ),4:PSET( I+1,L ),0
3360 IF A$="6" THEN I=I+1:PSET( I,L ),4:PSET( I-1,L ),0
3370 IF A$="8" THEN L=L-1:PSET( I,L ),4:PSET( I,L+1 ),0
3380 IF A$="2" THEN L=L+1:PSET( I,L ),4:PSET( I,L-1 ),0
3390 IF A$="7" THEN I=I-1 : L=L-1:PSET( I,L ),4:PSET( I+1,L+1 ),0
3400 IF A$="9" THEN I=I+1 : L=L-1:PSET( I,L ),4:PSET( I-1,L+1 ),0
3410 IF A$="1" THEN I=I-1 : L=L+1:PSET( I,L ),4:PSET( I+1,L-1 ),0
3420 IF A$="3" THEN I=I+1 : L=L+1:PSET( I,L ),4:PSET( I-1,L-1 ),0
3430 IF A$="M" OR A$="m" THEN PSET( I,L ),4:M=M+1:X(M)=I:Y(M)=L:GOTO 3470
3440 IF A$="F" OR A$="f" THEN M=M+1:X(M)=0:Y(M)=0:GOTO 3490
3450 IF A$="C" OR A$="c" THEN I=I+1:L= 74 :M=M+1:X(M)=I:Y(M)=L:I=I+1:L=176:L=176:GOTO
3470
3460 GOTO 3340
3470 LOCATE 24,1:PRINT "
3480 LOCATE 24,1:INPUT "COLOR :" ,CCOL$( M ):LOCATE 24,1:PRINT "CONTINUE" :GOTO 3340
3490 SCREEN 1:COLOR 0,8:CLS
3500 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "

```

```

3510 LINE ( 41,194)-(311,194) ,4
3520 LINE ( 41, 50)-(311, 50) ,4
3530 LINE ( 41, 50)-(-41,194) ,4
3540 LINE (311, 50)-(311,194) ,4
3550 I=0
3560 I=I+1
3570 IF X(I)=0 THEN GOTO 3640
3580 IF CCOL$(I)="M" THEN YY(I)=170 :GOTO 3560
3590 IF CCOL$(I)="A" THEN YY(I)=146 :GOTO 3560
3600 IF CCOL$(I)="R" THEN YY(I)=122 :GOTO 3560
3610 IF CCOL$(I)="V" THEN YY(I)= 98 :GOTO 3560
3620 IF CCOL$(I)="N" THEN YY(I)=180 :GOTO 3560
3630 IF CCOL$(I)="C" THEN YY(I)= 74 :COLOR 2,0:GOTO 3560
3640 FOR Z=1 TO I-2
3650 IF X(Z+1)=0 THEN GOTO 17440
3660 LINE ( X(Z),YY(Z))-( X(Z+1),YY(Z+1)) ,4
3670 NEXT Z
3680 LINE(41,YY(1))-(X(1),YY(1)) ,4
3690 LINE(X(I-1),YY(I-1))-(311,YY(I-1)) ,4
3700 PAINT (42,54) ,0 ,4
3710 PAINT (12,14) ,7 ,4
3720 LOCATE 24, 5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
3730 A$=INKEY$
3740 IF A$="S" THEN GOTO 3770
3750 IF A$="N" THEN GOSUB 2990
3760 GOTO 3730
3770 GOTO 2660
3780 LOCATE 24, 5:COLOR 4,7:PRINT " CALCULOS ALTA RESOLUCION "
3790 DIM L(R)
3800 FOR I=1 TO R
3810 L(I)=Y(I)
3820 NEXT I
3830 FOR I=2 TO R
3840 FOR J=1 TO I-1
3850 IF L(J)<=L(I) THEN 3920
3860 X=L(I)
3870 FOR K=I TO J+1 STEP -1
3880 L(K)=L(K-1)
3890 NEXT K
3900 L(J)=X

```

```

3910 GOTO 3930
3920 NEXT J
3930 NEXT I
3940 ' TERMINADA LA ORDENACION QUE NO ES CERO
3950 ' BUSQUEDA DEL VALOR MENOR
3960 H=1
3970 IF L(H)=0 THEN H=H+1 :GOTO 3970
3980 IF GGG=5 THEN GOTO 4020
3990 VPY=L(H) :VGY=L(R)
4000 FOR I=1 TO R:L(I)=X(I) :NEXT I
4010 GGG=5:GOTO 3830
4020 VPX=L(H) :VGX=L(R)
4030 GOTO 4560
4040 LOCATE 24, 5:COLOR 4,7:INPUT "
4050 LOCATE 24, 5:COLOR 4,7:PRINT " NIVEL : " ,L :LINE(2,L-1)
4060 A$=INKEY$ "
4070 IF A$="S" THEN GOTO 4100
4080 IF A$="N" THEN GOTO 4040
4090 GOTO 4060
4100 LOCATE 24, 5:COLOR 4,7:PRINT " COLOR ESCOTOMA "
4110 A$=INKEY$
4120 IF A$="M" THEN QQQ=6 :GOTO 4170
4130 IF A$="A" THEN QQQ=1 :GOTO 4170
4140 IF A$="R" THEN QQQ=4 :GOTO 4170
4150 IF A$="V" THEN QQQ=2 :GOTO 4170
4160 GOTO 4110
4170 LOCATE 24, 5:COLOR 4,7:PRINT " OPERANDO "
4180 COLOR 2,0:I=0:M=350:B=1
4190 FOR R=1 TO M
4200 PSET(R,L):AA(B)=POINT(R+1,L)
4210 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)=5 THEN X(B)=POINT(O)+1:Y(B)=POINT(1)+1:B=B+1
4220 NEXT R
4230 'LECTURA DE DATOS FOR H=1 TO B :PRINT X(H);Y(H);AA(H):NEXT
4240 GOTO 4260
4250 ' SI EL ANTERIOR ES
4260 SCREEN 1:COLOR 0,8:CLS
4270 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "
4280 LINE (41,194)-(311,194),4

```

```

4290 LINE (41, 50)-(311, 50),4
4300 LINE (41, 50)-(41,194),4
4310 LINE (311,50)-(311,194),4
4320 I=0
4330 I=I+1
4340 IF X(I)=0 THEN GOTO 4420
4350 IF AA(I)=14 THEN AA(I)=QQQ
4360 IF AA(I)=6 THEN YY(I)=170:GOTO 4330
4370 IF AA(I)=1 THEN YY(I)=146:GOTO 4330
4380 IF AA(I)=4 THEN YY(I)=122:GOTO 4330
4390 IF AA(I)=2 THEN YY(I)= 98:GOTO 4330
4400 IF AA(I)=0 THEN YY(I)=180:GOTO 4330
4410 IF AA(I)=5 THEN YY(I)=74 :GOTO 4330
4420 FOR Z=1 TO 1-2
4430 IF X(Z)=0 OR X(Z+1)=0 THEN GOTO 4460
4440 LINE(X(Z),YY(Z))-(X(Z+1),YY(Z+1)),4
4450 NEXT Z
4460 LINE(41,YY(1))-(X(1),YY(1)),4
4470 LINE(X(I-1),YY(I-1))-(311,YY(I-1)),4
4480 PAINT (42,54),0,4
4490 PAINT (12,14),7,4
4500 LOCATE 24,5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
4510 A$=INKEY$
4520 IF A$="S" THEN GOTO 4550
4530 IF A$="N" THEN GOSUB 2990
4540 GOTO 4510
4550 GOTO 2660
4560 GOTO 4600
4570 LOCATE 24,5:COLOR 4,7:PRINT "
4580 COMMON VPY,VGY,VPX,VGX,TTT
4590 CHAIN "B:ESPAC.BAS"
4600 LOCATE 24,5:COLOR 4,7:PRINT "
4610 A$=INKEY$
4620 IF A$="A" THEN TTT=1:GOTO 4570
4630 IF A$="V" THEN TTT=2:GOTO 4570
4640 IF A$="R" THEN TTT=4 :GOTO 4570
4650 IF A$="M" THEN TTT=6 :GOTO 4570
4660 GOTO 4610
4670 DIM HX(40),HY(40),CLL(10):GOTO 4790
4680 LOCATE 24,5:COLOR 4,7:INPUT "
          ", CCC$: PP=PP+1
          COLOR "

```

```

4690 IF CCC$="M" THEN CLL(PP)=6
4700 IF CCC$="A" THEN CLL(PP)=1
4710 IF CCC$="R" THEN CLL(PP)=4
4720 IF CCC$="V" THEN CLL(PP)=2
4730 GOTO 4780 : LOCATE 24, 5 : COLOR 4,7 : PRINT "      "
4740 A$=INKEY$
4750 IF A$="S" THEN PP=PP+1 : GOTO 4790
4760 IF A$="N" THEN GOTO 4780
4770 GOTO 4740
4780 GOTO 4930
4790 I=176:L=120:LOCATE 24, 5:COLOR 4,7:PRINT "      "
4800 PSET(I,L), 3
4810 A$=INKEY$
4820 IF A$="4" THEN I=I-1:PSET(I,L),4:PSET(I+1,L),0
4830 IF A$="6" THEN I=I+1:PSET(I,L),4:PSET(I-1,L),0
4840 IF A$="8" THEN L=L-1:PSET(I,L),4:PSET(I,L+1),0
4850 IF A$="2" THEN L=L+1:PSET(I,L),4:PSET(I,L-1),0
4860 IF A$="7" THEN I=I-1 : L=L-1:PSET(I,L),4:PSET(I+1,L+1),0
4870 IF A$="9" THEN I=I+1 : L=L-1:PSET(I,L),4:PSET(I-1,L+1),0
4880 IF A$="1" THEN I=I-1 : L=L+1:PSET(I,L),4:PSET(I+1,L-1),0
4890 IF A$="3" THEN I=I+1 : L=L+1:PSET(I,L),4:PSET(I-1,L-1),0
4900 IF A$="M" OR A$="m" THEN PSET(HX(SS),HY(SS)),4:SS=SS+1:HGX(SS)=I:HY(SS)=L:GO
TO 4810
4910 IF A$="F" OR A$="f" THEN SS=SS+1:HGX(SS)=0:HY(SS)=0:GOTO 4680
4920 GOTO 4810
4930 CONTROL=33 : GOTO 2660
4940 R=1
4950 A=1:C=C+A
4960 IF C=SS-1 THEN GOTO 5000
4970 IF HX(C)=0 THEN R=R+1:GOTO 4950
4980 LINE(HX(C),HY(C)-(HX(C+1),HY(C+1)),CLL(R))
4990 GOTO 4950
5000 GOTO 4570

```

```

10 IF ACS=999 THEN GOTO 1440
20 IF ACS=111 THEN NUM$=DDD$:GOTO 570
30 SCREEN 3:COLOR 2,0:CLS
40 GOSUB 1370
50 A$=INKEY$
60 IF A$="1" THEN GOTO 100
70 IF A$="2" THEN GOTO 550
80 IF A$="3" THEN CHAIN "B:MENU.BAS",400
90 GOTO 50
100 ' INTRODUCIR DATOS
110 COLOR 3,1:CLS:LOCATE 10,17,0:INPUT " INTRODUCIR EL NUMERO DE REFERENCIA (LUE
GO PULSE RETURN): ",NUM$
120 COD$=NUM$+"NOT"
130 OPEN "O",#1,COD$
140 COLOR 2,0:CLS:COLOR 1,3:LOCATE 1,1,0:PRINT " NOTAS S I G U I E N T E
C O N S U L T A "
150 COLOR 2,0
160 IN=0:GOSUB 1060
170 LOCATE 5,2,0:COLOR 1,3:PRINT "1":COLOR 2,0
180 LOCATE 5,5,8:COLOR 2,0:INPUT "",B$:WRITE #1,B$
190 GOSUB 990
200 IN=20:GOSUB 1060
210 LOCATE 7,2,0:PRINT "2"
220 LOCATE 7,5,8:COLOR 2,0:INPUT "",B$:WRITE #1,B$
230 GOSUB 990
240 IN=40:GOSUB 1060
250 LOCATE 9,2,0:PRINT "3"
260 LOCATE 9,5,8:COLOR 2,0:INPUT "",B$:WRITE #1,B$
270 GOSUB 990
280 IN=60:GOSUB 1060
290 LOCATE 11,2,0:PRINT "4"
300 LOCATE 11,5,8:COLOR 2,0:INPUT "",B$:WRITE #1,B$
310 GOSUB 990
320 IN=80:GOSUB 1060
330 LOCATE 13,2,0:PRINT "5"
340 LOCATE 13,5,8:COLOR 2,0:INPUT "",B$:WRITE #1,B$

```

```

350 GOSUB 990
360 IN=100:GOSUB 1060
370 LOCATE 15,2,0:PRINT "6"
380 LOCATE 15,5,8:COLOR 2,0:INPUT "",B$:WRITE #1,B$
390 GOSUB 990
400 IN=120:GOSUB 1060
410 LOCATE 17,2,0:PRINT "7"
420 LOCATE 17,5,8:COLOR 2,0:INPUT "",B$:WRITE #1,B$
430 GOSUB 990
440 IN=140:GOSUB 1060
450 LOCATE 19,2,0:PRINT "8"
460 LOCATE 19,5,8:COLOR 2,0:INPUT "",B$:WRITE #1,B$
470 GOSUB 990
480 IN=160:GOSUB 1060
490 LOCATE 21,2,0:PRINT "9"
500 LOCATE 21,5,8:COLOR 2,0:INPUT "",B$:WRITE #1,B$
510 GOSUB 990
520 CLOSE #1
530 IF ACS=999 THEN CHAIN "B:MENU.BAS"
540 GOSUB 1180
550 ' INTRODUCIR DATOS
560 COLOR 1,3:CLS:LOCATE 10,17,0:INPUT " INTRODUCIR EL NUMERO DE REFERENCIA (LUE
GO PULSE RETURN ): ","NUM$"
570 COLOR 2,0:CLS:COLOR 1,3:LOCATE 1,1,0:PRINT " NOTAS SIGUIENTE
C O N S U L T A "
580 COD$=NUM$+"NOT"
590 OPEN "I",#1,COD$
600 COLOR 2,0
610 IN=0:GOSUB 1060
620 LOCATE 5,2,0:COLOR 1,3:PRINT "1":COLOR 2,0
630 LOCATE 5,5,0:COLOR 2,0:INPUT #1,B$:PRINT B$
640 GOSUB 1120
650 IN=20:GOSUB 1060
660 LOCATE 7,2,0:COLOR 1,3:PRINT "2"
670 LOCATE 7,5,0:COLOR 2,0:INPUT #1,B$:PRINT B$
680 GOSUB 1120
690 IN=40:GOSUB 1060
700 LOCATE 9,2,0:COLOR 1,3:PRINT "3"
710 LOCATE 9,5,0:COLOR 2,0:INPUT #1,B$:PRINT B$
720 GOSUB 1120

```

```

730 IN=60:GOSUB 1060
740 LOCATE 11,2,0:COLOR 1,3:PRINT "4"
750 LOCATE 11,5,0:COLOR 2,0:INPUT #1,B$:PRINT B$
760 GOSUB 1120
770 IN=80:GOSUB 1060
780 LOCATE 13,2,0:COLOR 1,3:PRINT "5"
790 LOCATE 13,5,0:COLOR 2,0:INPUT #1,B$:PRINT B$
800 GOSUB 1120
810 IN=100:GOSUB 1060
820 LOCATE 15,2,0:COLOR 1,3:PRINT "6"
830 LOCATE 15,5,0:COLOR 2,0:INPUT #1,B$:PRINT B$
840 GOSUB 1120
850 IN=120:GOSUB 1060
860 LOCATE 17,2,0:COLOR 1,3:PRINT "7"
870 LOCATE 17,5,0:COLOR 2,0:INPUT #1,B$:PRINT B$
880 GOSUB 1120
890 IN=140:GOSUB 1060
900 LOCATE 19,2,0:COLOR 1,3:PRINT "8"
910 LOCATE 19,5,0:COLOR 2,0:INPUT #1,B$:PRINT B$
920 GOSUB 1120
930 IN=160:GOSUB 1060
940 LOCATE 21,2,0:COLOR 1,3:PRINT "9"
950 LOCATE 21,5,0:COLOR 2,0:INPUT #1,B$:PRINT B$
960 GOSUB 1120
970 CLOSE #1:GOSUB 1290:GOSUB 1180
980 LOCATE 1,20,8:END
990 , CONTINUAR INTRODUCIR DATOS
1000 LOCATE 24,35,0:COLOR 1,3:PRINT " INTRODUCIR MAS DATOS ( S/N ) "
1010 A$=INKEY$
1020 IF A$="S" OR A$="s" THEN WRITE #1,A$:LOCATE 24,35,0:COLOR 2,0:PRINT "
1020 IF A$="N" OR A$="n" THEN WRITE #1,A$:GOTO 520
1030 IF A$="N" OR A$="n" THEN LINEAS
1040 GOTO 1010
1050 RETURN
1060 , LINEAS
1070 LINE (0,33+IN)-(799,33+IN),3
1080 LINE (22,33+IN)-(22,53+IN),3
1090 LINE (0,53+IN)-(799,53+IN),3
1100 LINE (0,33+IN)-(0,53+IN),3:LINE (799,33+IN)-(799,53+IN),3
1110 RETURN

```

```

1120 ' CONTINUAR INTRODUCIR DATOS
1130 INPUT #1,A$
1140 IF A$="S" OR A$="s" THEN GOTO 1170
1150 IF A$="N" OR A$="n" THEN GOTO 970
1160 GOTO 1130
1170 RETURN
1180 ' CAMBIO PROGRAMA
1190 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
1200 COLOR 0,3:CLS
1210 LOCATE 4,15,0:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A"
1220 LOCATE 7,20:COLOR 1,3:PRINT " 1 - VOLVER AL MENU PRINCIPAL "
1230 LOCATE 9,20:COLOR 1,3:PRINT " 2 - VOLVER AL MENU DE LA HISTORIA CLINICA"
1240 A$=INKEY$
1250 IF A$="1" THEN CHAIN "B:MENU.BAS"
1260 IF A$="2" THEN CHAIN "B:MENU.BAS",400
1270 GOTO 1240
1280 ' PULSE RETURN
1290 LOCATE 24,40,0:COLOR 2,1:PRINT " PULSE RETURN "
1300 A$=INKEY$
1310 IF A$=CHR$(13) THEN GOTO 1330
1320 GOTO 1300
1330 LOCATE 24,40,0:COLOR 2,0:PRINT "
1340 ' TIEMPO
1350 FOR TP=1 TO 100:NEXT
1360 RETURN
1370 COLOR 0,3:CLS
1380 LOCATE 1,1,0 :COLOR 3,1:PRINT " N O T A S S I G U I E N T E C O N S U
L T A "
1390 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A"
1400 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS "
1410 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS "
1420 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL "
1430 RETURN
1440 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"NOT":OPEN "O",#1,COD$:GOTO 140

```

## SUBPROGRAMA : 6

```

10 IF ACS=999 THEN GOTO 1470
20 IF ACS=111 THEN NUM$=DDD$:GOTO 580
30 CLOSE:SCREEN 3:COLOR 2,0:CLS:GOSUB 1400
40 A$=INKEY$
50 IF A$="1" THEN GOTO 90
60 IF A$="2" THEN GOTO 560
70 IF A$="3" THEN CHAIN "B:MENU.BAS",400
80 GOTO 40
90 COLOR 3,1:CLS:LOCATE 10,17,0:INPUT " INTRODUCIR EL NUMERO DE REFERENCIA (LUEG
O PULSE RETURN) : ",NUM$
100 COD$=NUM$+"POS"
110 OPEN "O",#1,COD$
120 GOSUB 990
130 LOCATE 1,53,8:COLOR 1,3:INPUT "",B$:WRITE #1,B$
140 LOCATE 3,2,0:COLOR 2,1:PRINT " CAMARA ANTERIOR "
150 B$=INKEY$
160 IF B$="1" THEN LOCATE 3,21:PRINT " TALAMIA(1) " :WRITE #1,B$:GOTO 210
170 IF B$="2" THEN LOCATE 3,34:PRINT " HIPERTALAMIA(2) " :WRITE #1,B$:GOTO 210
180 IF B$="3" THEN LOCATE 3,52:PRINT " HIPOTALAMIA(3) " :WRITE #1,B$:GOTO 210
190 IF B$="4" THEN LOCATE 3,69:PRINT " ATALAMIA(4) " :WRITE #1,B$:GOTO 210
200 GOTO 150
210 LOCATE 5,2:COLOR 2,1:PRINT " HIPEMA "
220 B$=INKEY$
230 IF B$="1" THEN LOCATE 5,12:PRINT " SI(1) " :WRITE #1,B$:GOTO 260
240 IF B$="2" THEN LOCATE 5,20:PRINT " NO(2) " :WRITE #1,B$:GOTO 260
250 GOTO 220
260 LOCATE 7,2:COLOR 2,1:PRINT " PUPILA "
270 B$=INKEY$
280 IF B$="1" THEN LOCATE 7,12:PRINT " CENTRADA(1) " :WRITE #1,B$:GOTO 310
290 IF B$="2" THEN LOCATE 7,26:PRINT " DESPLAZADA(2) " :WRITE #1,B$:GOTO 310
300 GOTO 270
310 LOCATE 9,2:COLOR 2,1:PRINT " REACCION A LA LUZ "
320 B$=INKEY$
330 IF B$="1" THEN LOCATE 9,23:PRINT " SI(1) " :WRITE #1,B$:GOTO 360
340 IF B$="2" THEN LOCATE 9,31:PRINT " NO(2) " :WRITE #1,B$:GOTO 360

```

```

350 GOTO 320
360 LOCATE 11,2:COLOR 2,1:PRINT " TRAT. LOCAL " :LINE ( 7, 99)-(799, 99),3:LINE
( 7,110)-(799,110),3:LINE ( 7, 99)-( 7,110),3:LINE ( 799, 99)-(799,110),3 :LOC
ATE 11,18,8:INPUT "",B$:WRITE #1,B$
370 LOCATE 13,2:COLOR 2,1:PRINT " TRAT. GENERAL " :LINE ( 7,119)-(799,119),3:LIN
E ( 7,130)-(799,130),3:LINE ( 7,119)-( 7,130),3:LINE ( 799,119)-(799,130),3 :LO
CATE 13,20,8:INPUT "",B$:WRITE #1,B$
380 LOCATE 15,2:COLOR 2,1:PRINT " T.I.O. " :LINE ( 7,139)-(779,139),3:LINE ( 7,
150)-(779,150),3:LINE ( 7,139)-( 7,150),3:LINE ( 799,139)-(799,150),3:LOCATE 15
'12,8:INPUT "",B$:WRITE #1,B$
390 LOCATE 17,2:COLOR 2,1:PRINT " AMPOLLA " :LINE ( 7,159)-(799,159),3:LINE (
170)-(799,170),3:LINE ( 7,159)-( 7,170),3:LINE ( 799,159)-(799,170),3:LOCATE 1
7,13,8:INPUT "",B$:WRITE #1,B$
400 LOCATE 19,2:COLOR 2,1:PRINT " COMPLICACION " :LINE ( 7,179)-(799,179),3:LINE
( 7,190)-(799,190),3:LINE ( 7,179)-( 7,190),3:LINE ( 799,179)-(799,190),3 :LO
CATE 19,18,8:INPUT "",B$:WRITE #1,B$
410 LOCATE 24,30,0:COLOR 3,1:PRINT " OTRA COMPLICACION ( S/N ) "
420 B$=INKEY$
430 IF B$="S" OR B$="5" THEN WRITE #1,B$:GOTO 460
440 IF B$="N" OR B$="N" THEN WRITE #1,B$:GOTO 470
450 GOTO 420
460 LOCATE 21,2:COLOR 2,1:PRINT " COMPLICACION " :LINE ( 7,199)-(799,199),3:LINE
( 7,210)-(799,210),3:LINE ( 7,199)-( 7,210),3:LINE ( 799,199)-(799,210),3 :LO
CATE 21,18,8:INPUT "",B$:WRITE #1,B$
470 LOCATE 24,30,0:COLOR 2,0:PRINT "
480 LOCATE 24,30,0:COLOR 1,3:PRINT " ANOTAR SIGUIENTE DIA ( S/N ) "
490 B$=INKEY$
500 IF B$="S" OR B$="5" THEN WRITE #1,B$:GOTO 120
510 IF B$="N" OR B$="n" THEN WRITE #1,B$:GOTO 530
520 GOTO 490
530 CLOSE
540 IF ACS=999 THEN GOTO 1480
550 GOSUB 1220
560 ' LEER
570 COLOR 1,3:CLS:LOCATE 10,17,0:INPUT " INTRODUCIR EL NUMERO DE REFERENCIA ( LUE
GO PULSE RETURN ) : ",NUM$
580 COD$=NUM$+"POS"
590 OPEN "I",#1,COD$
600 GOSUB 990

```



```

890 GOSUB 1320
900 INPUT #1,B$
910 IF B$="S" OR B$="s" THEN GOTO 600
920 IF B$="N" OR B$="n" THEN GOTO 940
930 CLOSE
940 IF ACS=999 THEN GOTO 1480
950 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
960 GOSUB 1220
970 LOCATE 1,20,8:COLOR 2,0:END
980 LOCATE 1,20,8:COLOR 2,0:END
990 , CUADRO
1000 COLOR 2,0:CLS
1010 COLOR 2,0:CLS:COLOR 1,3:LOCATE 1,2,0:PRINT " P O S T O P E R A T O R I O "
1020 LOCATE 1,46:COLOR 3,1:PRINT " DIA : "
1030 LOCATE 3,2:COLOR 2,0:PRINT " CAMARA ANTERIOR "
1040 LOCATE 5,2:COLOR 2,0:PRINT " HIPEMA "
1050 LOCATE 7,2:COLOR 2,0:PRINT " PUPILA "
1060 LOCATE 9,2:COLOR 2,0:PRINT " REACCION A LA LUZ "
1070 LOCATE 11,2:COLOR 2,0:PRINT " TRAT. LOCAL "
1080 LOCATE 13,2:COLOR 2,0:PRINT " TRAT. GENERAL "
1090 LOCATE 15,2:COLOR 2,0:PRINT " T.I.O. "
1100 LOCATE 17,2:COLOR 2,0:PRINT " AMPOLLA "
1110 LOCATE 19,2:COLOR 2,0:PRINT " COMPLICACION "
1120 LINE ( 7, 19)-(648, 19),3:LINE ( 7, 30)-(648, 30),3:LINE ( 7, 19)-( 7,
30),3:LINE (648, 19)-(648, 30),3
1130 LINE ( 7, 39)-(208, 39),3:LINE ( 7, 50)-(208, 50),3:LINE ( 7, 39)-( 7,
50),3:LINE (208, 39)-(208, 50),3
1140 LINE ( 7, 59)-(320, 59),3:LINE ( 7, 70)-(320, 70),3:LINE ( 7, 59)-( 7,
70),3:LINE (320, 59)-(320, 70),3
1150 LINE ( 7, 79)-(296, 79),3:LINE ( 7, 90)-(296, 90),3:LINE ( 7, 79)-( 7,
90),3:LINE (296, 79)-(296, 90),3
1160 LINE ( 7, 99)-(112, 99),3:LINE ( 7,110)-(112,110),3:LINE ( 7, 99)-( 7,1
10),3:LINE (112, 99)-(112,110),3
1170 LINE ( 7,119)-(128,119),3:LINE ( 7,130)-(128,130),3:LINE ( 7,119)-( 7,
30),3:LINE (128,119)-(128,130),3
1180 LINE ( 7,139)-( 73,139),3:LINE ( 7,150)-( 73,150),3:LINE ( 7,139)-( 7,
50),3:LINE ( 73,139)-( 73,150),3
1190 LINE ( 7,159)-( 80,159),3:LINE ( 7,170)-( 80,170),3:LINE ( 7,159)-( 7,1

```

```

70) ,3:LINE ( 80,159)-( 80,170),3
1200 LINE ( 7,179)-(120,179),3:LINE ( 7,190)-(120,190),3:LINE ( 7,179)-( 7,1
90),3:LINE (120,179)-(120,190),3
1210 RETURN
' CAMBIO PROGRAMA
1220 COLOR 0,3:CLS
1230 LOCATE 4,15,0:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A"
1250 LOCATE 7,20:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
1260 LOCATE 9,20:COLOR 1,3:PRINT " 2 - VOLVER AL MENU"
1270 A$=INKEY$
1280 IF A$="1" THEN CHAIN "B:UUU.BAS"
1290 IF A$="2" THEN CHAIN "B:MENU.BAS",400
1300 GOTO 1270
1310 , PULSE RETURN
1320 LOCATE 24,40,0:COLOR 2,1:PRINT " PULSE RETURN "
1330 A$=INKEY$
1340 IF A$=CHR$(13) THEN GOTO 1360
1350 GOTO 1330
1360 LOCATE 24,40,0:COLOR 2,0:PRINT "
1370 , TIEMPO
1380 FOR TP=1 TO 100:NEXT
1390 RETURN
1400 COLOR 0,3:CLS
1410 LOCATE 1,1,0 :COLOR 3,1:PRINT " P O S T O P E R A T O R I O "
1420 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A"
1430 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS "
1440 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS "
1450 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL "
1460 RETURN
1470 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"POS":OPEN "O",#1,COD$:GOTO 120
1480 COMMON ACS,NUM$ :CHAIN "B:UUU.BAS"

```

## S U B P R O G R A M A : 7

```

10 SCREEN 3:COLOR 2,0:CLS
20 GOSUB 770
30 A$=INKEY$
40 IF A$="1" THEN GOTO 80
50 IF A$="2" THEN GOTO 320
60 IF A$="3" THEN CHAIN "B:MENU.BAS"
70 GOTO 30
80 ' INTRODUCIR DATOS
90 COLOR 2,0:CLS
100 GOSUB 980:COLOR 2,0
110 OPEN "R",#1,"BIBLIO.TXT",142
120 FIELD 1,4 AS IND$,60 AS TIT$,35 AS AUT$,25 AS REV$,3 AS VOL$,3 AS NUM$,4 A
S PAG1$,4 AS PAG2$,4 AS FECH$
130 GET 1,1:IND=VAL(IND$)
140 IND=IND+1 :COLOR 2,0
150 LOCATE 3,16,0:PRINT IND :LSET IND$=STR$(IND)
160 LOCATE 5,24,8:INPUT "",A$:LSET TIT$=A$
170 LOCATE 7,16:INPUT "",A$:LSET AUT$=A$
180 LOCATE 9,27:INPUT "",A$:LSET REV$=A$
190 LOCATE 11,13:INPUT "",A$:LSET VOL$=A$
200 LOCATE 13,12:INPUT "",A$:LSET NUM$=A$
210 LOCATE 15,29:INPUT "",A$:LSET PAG1$=A$
220 LOCATE 17,29:INPUT "",A$:LSET PAG2$=A$
230 LOCATE 19,11:INPUT "",A$:LSET FECH$=A$
240 PUT 1,1
250 PUT 1,IND
260 LOCATE 24,30,0:COLOR 3,1:PRINT " QUIERE INTRODUCIR OTRA BIBLIOGRAFIA ( S/N ) "
270 B$=INKEY$
280 IF B$="S" OR B$="n" THEN LOCATE 24,30,0:COLOR 2,0:PRINT ""
    " ;GOTO 310
290 IF B$="N" OR B$="n" THEN CLOSE:CHAIN "B:MENU.BAS"
300 GOTO 270
310 GOSUB 980:GOTO 140
320 COLOR 1,3:CLS
330 OPEN "R",#1,"BIBLIO.TXT",142
340 FIELD 1,4 AS IND$,60 AS TIT$,35 AS AUT$,25 AS REV$,3 AS VOL$,3 AS NUM$,4 A

```

```

S PAG1$,4 AS PAG2$,4 AS FECH$           " :RETURN
350 AAA=1
360 GET 1,1:IND=VAL(IND$):AAA=AAA+1
370 GET 1,AAA:GOSUB 980:COLOR 2,0
380 LOCATE 3,16,0:PRINT IND$
390 LOCATE 5,24,8:PRINT TIT$
400 LOCATE 7,16:PRINT AUT$ 
410 LOCATE 9,27:PRINT REV$ 
420 LOCATE 11,13:PRINT VOL$ 
430 LOCATE 13,12:PRINT NUM$ 
440 LOCATE 15,29:PRINT PAG1$ 
450 LOCATE 17,29:PRINT PAG2$ 
460 LOCATE 19,11:PRINT FECH$ 
470 LOCATE 24,30,0:COLOR 3,1:PRINT " PULSE RETURN PARA SEGUIR "
480 B$=INKEY$ 
490 IF B$=CHR$(13) THEN GOTO 510
500 GOTO 480
510 AAA=AAA+1
520 IF AAA>IND THEN GOTO 530 ELSE GOTO 537
530 LOCATE 24,20,0:COLOR 1,3:PRINT " FIN DE FICHERO (PULSE RETURN PARA VOLVER AL
MENU ) "
540 B$=INKEY$ 
550 IF B$=CHR$(13) THEN GOTO 570
560 GOTO 540
570 CHAIN "B:MENU.BAS"
580 LOCATE 1,30,8:COLOR 2,0:END
590 ' CAMBIO PROGRAMA
600 COLOR 0,3:CLS
610 LOCATE 4,15,0:COLOR 0,3:PRINT " PULSE LA OPCION ELEGIDA
A"
620 LOCATE 7,20:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
630 LOCATE 9,20:COLOR 1,3:PRINT " 2 - VOLVER AL MENU"
640 A$=INKEY$ 
650 IF A$="1" THEN CHAIN "B:
660 IF A$="2" THEN CHAIN "B:MENU.BAS"
670 GOTO 640
680 ' PULSE RETURN
690 LOCATE 24,40,0:COLOR 2,1:PRINT " PULSE RETURN "
700 A$=INKEY$ 
710 IF A$=CHR$(13) THEN GOTO 730

```

```

720 GOTO 700
730 LOCATE 24,40,0:COLOR 2,0:PRINT "    7,50)-(56)-(169
740 ' TIEMPO
750 FOR TP=1 TO 100:NEXT
760 RETURN
770 COLOR 0,3:CLS
780 LOCATE 1,1,0 :COLOR 3,1:PRINT " B I B L I O G R A F I A M E D I C A "
790 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D A
"
800 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS "
810 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS "
820 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL "
830 RETURN
840 ' CREACION DEL PRIMER FICHERO
850 OPEN "R",#1,"BIBLIO.TXT",142
860 FIELD 1,4 AS IND$,60 AS TIT$,35 AS AUT$,25 AS REV$,3 AS VOL$,3 AS NUM$,4 AS
PAG1$,4 AS PAG2$,4 AS FECH$
870 INPUT "INDICE :" ,A$:LSET IND$=A$
880 INPUT "TITULO DE TRABAJO :" ,A$:LSET TIT$=A$
890 INPUT "AUTOR (ES) :" ,A$:LSET AUT$=A$
900 INPUT "REVISTA O PUBLICACION :" ,A$:LSET REV$=A$
910 INPUT "VOLUMEN :" ,A$:LSET VOL$=A$
920 INPUT "NUMERO :" ,A$:LSET NUM$=A$
930 INPUT "PAGINA(COMIENZO DEL TRABAJO) :" ,A$:LSET PAG1$=A$
940 INPUT "PAGINA(FIN DEL TRABAJO) :" ,A$:LSET PAG2$=A$
950 INPUT "FECHA :" ,A$:LSET FECH$=A$
960 PUT 1,1
970 CLOSE #1:END
980 ' CUADRO
990 COLOR 2,0:CLS
1000 LOCATE 1,1,0:COLOR 1,3:PRINT " B I B L I O G R A F I A M E D I C A "
1010 COLOR 2,0
1020 LOCATE 3,2:PRINT " REFERENCIA :" ;COLOR 2,1
1030 LOCATE 5,2:PRINT " TITULO DEL TRABAJO "
1040 LOCATE 7,2:PRINT " AUTOR (ES) "
1050 LOCATE 9,2:PRINT " REVISTA O PUBLICACION "
1060 LOCATE 11,2:PRINT " VOLUMEN "
1070 LOCATE 13,2:PRINT " NUMERO "
1080 LOCATE 15,2:PRINT " PAGINA COMIENZA TRABAJO "
1090 LOCATE 17,2:PRINT " PAGINA FINALIZA TRABAJO "

```

```
1100 LOCATE 19,2:PRINT " FECHA "
1110 LINE ( 7, 39)-(586, 39),3: LINE ( 7, 50)-(586, 50),3: LINE (169, 39)-(169
1110 ,50),3: LINE ( 7, 39)-( 7, 50),3: LINE (586, 39)-(586, 50),3
1120 LINE ( 7, 59)-(400, 59),3: LINE ( 7, 70)-(400, 70),3: LINE (105, 59)-(105
1120 ,70),3: LINE ( 7, 59)-( 7, 70),3: LINE (400, 59)-(400, 70),3
1130 LINE ( 7, 79)-(408, 79),3: LINE ( 7, 90)-(408, 90),3: LINE (192, 79)-(192
1130 ,90),3: LINE ( 7, 79)-( 7, 90),3: LINE (408, 79)-(408, 90),3
1140 LINE ( 7, 99)-(121, 99),3: LINE ( 7, 110)-(121, 110),3: LINE ( 81, 99)-( 81
1140 ,110),3: LINE ( 7, 99)-( 7, 110),3: LINE (121, 99)-(121, 110),3
1150 LINE ( 7,119)-(113,119),3: LINE ( 7,130)-(113,130),3: LINE ( 73,119)-( 73
1150 ,130),3: LINE ( 7,119)-( 7,130),3: LINE (113,119)-(113,130),3
1160 LINE ( 7,139)-(256,139),3: LINE ( 7,150)-(256,150),3: LINE (209,139)-(209
1160 ,150),3: LINE ( 7,139)-( 7,150),3: LINE (256,139)-(256,150),3
1170 LINE ( 7,159)-(256,159),3: LINE ( 7,170)-(256,170),3: LINE (209,159)-(209
1170 ,170),3: LINE ( 7,159)-( 7,170),3: LINE (256,159)-(256,170),3
1180 LINE ( 7,179)-(113,179),3: LINE ( 7,190)-(113,190),3: LINE ( 65,179)-( 65
1180 ,190),3: LINE ( 7,179)-( 7,190),3: LINE (113,179)-(113,190),3
1190 RETURN
```

S U B P R O G R A M A : 8

```

10 IF ACS=111 THEN NU$=DDD$:COD$=NU$+"APF":OPEN "I",#1,COD$:GOTO 450
20 'antecedentes personales y familiares
30 CLS:SCREEN 3:COLOR 2,0:CLS
40 COLOR 1,3:CLS:LOCATE 1,1,0:COLOR 3,1:PRINT " A N T E C E D E N T E S   P E R
S O N A L E S   Y   F A M I L I A R E S "
50 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E   L A   O P C I O N   E L E G I D A "
60 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS"
70 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS"
80 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL"
90 A$=INKEY$

100 IF A$="1" THEN GOTO 140
110 IF A$="2" THEN GOTO 400
120 IF A$="3" THEN CHAIN "B:MENU.BAS",400
130 GOTO 90

140 COLOR 3,1:CLS:LOCATE 10,17,8:COLOR 3,1:INPUT " INTRODUZCA EL NUMERO DE HISTO
RIAL (LUEGO PULSE RETURN) : ",NUM$
150 IF ACS=999 THEN GOTO 1230
160 A$="APF"
170 COD$=NUM$+A$
180 OPEN "O",#1,COD$
190 GOSUB 800
200 LOCATE 24,38:COLOR 0,1:PRINT " INTRODUZCA LOS DATOS (LUEGO PULSE RETURN) "
210 B=27
220 FOR A=4 TO 20 STEP 2
230 LOCATE A,B,8:COLOR 2,0:INPUT "",B$
240 WRITE #1,B$
250 IF A=20 THEN GOTO 270
260 NEXT A
270 'ANTECEDENTES FAMILIARES
280 CLS:GOSUB 23000
290 B=31
300 FOR A=5 TO 11 STEP 2
310 LOCATE A,B,8:COLOR 2,0:INPUT "",B$
320 WRITE #1,B$
330 IF A=11 THEN GOTO 350

```

```

340 NEXT A
350 LOCATE 24,34:COLOR 1,3:PRINT " ESPERE UN MOMENTO "
360 CLOSE #1
370 IF ACS=999 THEN GOTO 1240
380 GOSUB 700
390 END
400 'LEER DATOS
410 COLOR 1,3:CLS:LOCATE 10,17,8:COLOR 1,3:INPUT " INTRODUZCA EL NUMERO DE HISTO
RIAL (LUEGO PULSE RETURN) : ",NUM$"
420 A$="APF"
430 COD$=NUM$+A$
440 OPEN "I",#1,COD$
450 GOSUB 800
460 B=27
470 FOR A=4 TO 20 STEP 2
480 INPUT #1,B$:LOCATE A,B,8:COLOR 2,0:PRINT B$
490 IF A=20 THEN GOTO 510
500 NEXT A
510 LOCATE 24,38:COLOR 0,1:PRINT " PULSE RETURN "
520 A$=INKEY$
530 IF A$=CHR$(13) THEN GOTO 550
540 GOTO 520
550 'ANTECEDENTES FAMILIARES
560 CLS:GOSUB 23000
570 B=31
580 FOR A=5 TO 11 STEP 2
590 INPUT #1,B$:LOCATE A,B,8:COLOR 2,0:PRINT B$
600 IF A=11 THEN GOTO 620
610 NEXT A
620 CLOSE #1
630 LOCATE 24,34:COLOR 1,3:PRINT " PULSE RETURN "
640 A$=INKEY$
650 IF A$=CHR$(13) THEN GOTO 670
660 GOTO 640
670 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
680 GOSUB 700
690 END
700 'SUBRUTINA VOLVER MENU
710 CLS:SCREEN 3:COLOR 1,3:CLS
720 LOCATE 1,1:COLOR 3,1:PRINT " PULSE LA OPCION DESADA "

```

```
730 LOCATE 7,21:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESION "
740 LOCATE 11,21:COLOR 1,3:PRINT " 2 - VOLVER AL MENU PRINCIPAL "
750 A$=INKEY$
760 IF A$="1" THEN CHAIN "B:GGG.BAS"
770 IF A$="2" THEN CHAIN "B:MENU.BAS",400
780 GOTO 750
790 RETURN
800 ' SUBRUTINA CUADRO ANTECEDENTES PERSONALES
810 COLOR 2,0:CLS:SCREEN 3
820 LOCATE 1,1:COLOR 1,3:PRINT " ANTecedentes Personales "
830 LINE ( 0,23)-(799,23),1
840 LINE ( 0,43)-(799,43),1
850 LINE ( 0,63)-(799,63),1
860 LINE ( 0,83)-(799,83),1
870 LINE ( 0,103)-(799,103),1
880 LINE ( 0,123)-(799,123),1
890 LINE ( 0,143)-(799,143),1
900 LINE ( 0,163)-(799,163),1
910 LINE ( 0,183)-(799,183),1
920 LINE ( 0,203)-(799,203),1
930 LINE ( 0,23)-( 0,203),1
940 LINE (799, 23)-(799,203),1
950 LINE (200, 23)-(200,203),1
960 LOCATE 4,2:COLOR 3,0:PRINT "TABACO ( CANTIDAD/DIA )"
970 LOCATE 6,2:COLOR 3,0:PRINT "ALCOHOL ( CANTIDAD/DIA )"
980 LOCATE 8,2:COLOR 3,0:PRINT "TENSION ARTERIAL (mmHg )"
990 LOCATE 10,2:COLOR 3,0:PRINT "ENF. PADECIDAS"
1000 LOCATE 12,2:COLOR 3,0:PRINT "ENF. OFTALM. ACTUALES"
1010 LOCATE 14,2:COLOR 3,0:PRINT "ENF. GRAL. PADECIDAS"
1020 LOCATE 16,2:COLOR 3,0:PRINT "ENF. GRAL. ACTUALES"
1030 LOCATE 18,2:COLOR 3,0:PRINT "SENSIBILIDAD DROGAS"
1040 LOCATE 20,2:COLOR 3,0:PRINT "OTROS"
1050 RETURN
1060 ' SUBRUTINA CUADRO ANTECEDENTES FAMILIARES
1070 COLOR 2,0:CLS:SCREEN 3
1080 LOCATE 1,1:COLOR 1,3:PRINT " Antecedentes Familiares "
1090 LINE ( 0,33)-(799,33),1
1100 LINE ( 0,53)-(799,53),1
1110 LINE ( 0,73)-(799,73),1
```

1120 LINE ( 0,93)-(799,93),1  
1130 LINE ( 0,113)-(799,113),1  
1140 LINE ( 0, 33)-( 0,113),1  
1150 LINE (799, 33)-(799,113),1  
1160 LINE (228, 33)-(228,113),1  
1170 LOCATE 5,2:COLOR 3,0:PRINT "ANTECEDENTES GLAUCOMATOSOS"  
1180 LOCATE 7,2:COLOR 3,0:PRINT "OTRAS ENFERMEDADES"  
1190 LOCATE 9,2:COLOR 3,0:PRINT "MUERTES ( CAUSA )"  
1200 LOCATE 11,2:COLOR 3,0:PRINT "OTROS"  
1210 COLOR 2,0  
1220 RETURN  
1230 L=LEN(NUM\$):NU\$=RIGHT\$(NUM\$,L-1):COD\$=NU\$+"APF":OPEN "O",#1,COD\$:GOTO 190  
1240 COMMON ACS,NUM\$:CHAIN "B:GGG.BAS",1830

```

10 IF ACS=111 THEN NU$=DDD$:COD$=NU$+"IPV":OPEN "I",#1,COD$:GOTO 630
20 SCREEN 3:COLOR 2,0:CLS
30 GOSUB 1220
40 A$=INKEY$
50 IF A$=="1" THEN GOTO 90
60 IF A$=="2" THEN GOTO 590
70 IF A$=="3" THEN CHAIN "B:MENU.BAS",400
80 GOTO 40
90 COLOR 3,1:CLS:LOCATE 10,17:INPUT "INTRODUCIR EL NUMERO DE REFERENCIA (LUEGO P
ULSE RETURN) : ",NUM$
100 IF ACS=999 THEN GOTO 1690
110 COD$=NUM$+"IPV":OPEN "O",#1,COD$
120 GOSUB 1290
130 GOSUB 1550
140 GOSUB 1190:LOCATE 3,2,0:COLOR 2,1:PRINT " HA SIDO DIAG. DE GLAUCOMA ?..":GO
SUB 1190:LOCATE 3,2,0:COLOR 2,0:PRINT " HA SIDO DIAG. DE GLAUCOMA ?..":GOSUB 11
90:LOCATE 3,2,0:COLOR 2,1:PRINT " HA SIDO DIAG. DE GLAUCOMA ?.."
150 LOCATE 24,1,0
160 D$=INKEY$
170 IF D$=="1" THEN LOCATE 3,33,0:COLOR 2,1:PRINT " SI      :"WRITE #1,D$:GOTO 200
180 IF D$=="2" THEN LOCATE 3,41,0:COLOR 2,1:PRINT " NO     :"WRITE #1,D$:GOTO 440
190 GOTO 160
200 GOSUB 1190:LOCATE 3,52,0:COLOR 2,1:PRINT " HACE CUANTO TIEMPO ? " :GOSUB 1190
:LOCATE 3,52,0:COLOR 2,0:PRINT " HACE CUANTO TIEMPO ? " :GOSUB 1190:LOCATE 3,52,0
:COLOR 2,1:PRINT " HACE CUANTO TIEMPO ? "
210 LOCATE 3,76:INPUT "",D$:WRITE #1,D$
220 GOSUB 1190:LOCATE 5,2,0:COLOR 2,1:PRINT " TRAT. PREVIO DEL GLAUCOMA ?..":GO
SUB 1190:LOCATE 5,2,0:COLOR 2,0:PRINT " TRA. PREVIO DEL GLAUCOMA ?..":GOSUB 11
90:LOCATE 5,2,0:COLOR 2,1:PRINT " TRAT. PREVIO DEL GLAUCOMA ?.."
230 LOCATE 24,2,0
240 D$=INKEY$
250 IF D$=="1" THEN LOCATE 5,33,0:COLOR 2,1:PRINT " SI      :"WRITE #1,D$:GOTO 280
260 IF D$=="2" THEN LOCATE 5,41,0:COLOR 2,1:PRINT " NO     :"WRITE #1,D$:GOTO 440
270 GOTO 240
280 GOSUB 1190:LOCATE 7,2,0:COLOR 2,1:PRINT " TRAT. MEDICO " :GOSUB 1190:LOCATE

```

```

7,2,0:COLOR 2,0: PRINT " TRAT. MEDICO " :GOSUB 1190:LOCATE 7,2,0:COLOR 2,1: PRINT
" TRAT. MEDICO "
290 LOCATE 7,17,0:INPUT "",D$:WRITE #1,D$ "REGULARIDAD ?.....":GO
300 GOSUB 1190:LOCATE 9,2,0:COLOR 2,1:PRINT " REGULARIDAD ?.....":GO
300 GOSUB 1190:LOCATE 9,2,0:COLOR 2,0:PRINT " REGULARIDAD ?.....":GOSUB 11
300 GOSUB 1190:LOCATE 9,2,0:COLOR 2,1:PRINT " REGULARIDAD ?.....":GO
310 D$=INKEY$ " "
320 IF D$="1" THEN LOCATE 9,33,0:COLOR 2,1:PRINT " SI " :WRITE #1,D$:GOTO 350
330 IF D$="2" THEN LOCATE 9,41,0:COLOR 2,1:PRINT " NO " :WRITE #1,D$:GOTO 350
340 GOTO 310
350 GOSUB 1190:LOCATE 11,2,0:COLOR 2,1:PRINT " TRAT. QUIRURGICO ?.....":GO
350 GOSUB 1190:LOCATE 11,2,0:COLOR 2,0:PRINT " TRAT. QUIRURGICO ?.....":GOSUB 11
350 GOSUB 1190:LOCATE 11,2,0:COLOR 2,1:PRINT " TRAT. QUIRURGICO ?.....":GO
360 LOCATE 11,33,0:INPUT "",D$:WRITE #1,D$
360 LOCATE 11,33,0:INPUT "",D$:WRITE #1,D$ "INTOLERANCIA AL TRATAMIENTO ?":GO
370 GOSUB 1190:LOCATE 13,2,0:COLOR 2,1:PRINT " INTOLERANCIA AL TRATAMIENTO ?":GOSUB 11
370 GOSUB 1190:LOCATE 13,2,0:COLOR 2,0:PRINT " INTOLERANCIA AL TRATAMIENTO ?":GOSUB 11
370 GOSUB 1190:LOCATE 13,2,0:COLOR 2,1:PRINT " INTOLERANCIA AL TRATAMIENTO ?":GO
380 D$=INKEY$ " "
390 IF D$="1" THEN LOCATE 13,33,0:COLOR 2,1:PRINT " SI " :WRITE #1,D$:GOTO 420
0
400 IF D$="2" THEN LOCATE 13,41,0:COLOR 2,1:PRINT " NO " :WRITE #1,D$:GOTO 440
0
410 GOTO 380
420 GOSUB 1190:LOCATE 13,52,0:COLOR 2,1:PRINT " TIPO ? " :GOSUB 1190:LOCATE 13,52,0:COLOR 2,1:PRINT 2,1:PRINT " TIPO ? "
0,COLOR 2,0:PRINT " TIPO ? " :GOSUB 1190:LOCATE 13,52,0:COLOR 2,1:PRINT 2,1:PRINT " TIPO ? "
0
430 LOCATE 13,61,0:INPUT "",D$:WRITE #1,D$ "PREVIO CORTICOIDES ?...":GO
440 GOSUB 1190:LOCATE 15,2,0:COLOR 2,1:PRINT " TRAT. PREVIO CORTICOIDES ?...":GO
440 GOSUB 1190:LOCATE 15,2,0:COLOR 2,0:PRINT " TRAT. PREVIO CORTICOIDES ?...":GOSUB 11
440 GOSUB 1190:LOCATE 15,2,0:COLOR 2,1:PRINT " TRAT. PREVIO CORTICOIDES ?...":GO
450 D$=INKEY$ " "
460 IF D$="1" THEN LOCATE 15,33,0:COLOR 2,1:PRINT " SI " :WRITE #1,D$:GOTO 490
0
470 IF D$="2" THEN LOCATE 15,41,0:COLOR 2,1:PRINT " NO " :WRITE #1,D$:GOTO 550
0
480 GOTO 450
490 GOSUB 1190:LOCATE 17,2,0:COLOR 2,1:PRINT " CUANDO Y DURACION ? " :GOSUB 1190
:LOCATE 17,2,0:COLOR 2,0:PRINT " CUANDO Y DURACION ? " :GOSUB 1190:LOCATE 17,2,
0:COLOR 2,1:PRINT " CUANDO Y DURACION ? "
500 LOCATE 17,24,0:INPUT "",D$:WRITE #1,D$ " "

```

```

510 GOSUB 1190:LOCATE 19,2 ,0:COLOR 2,1:PRINT " TIPO ? " :GOSUB 1190:LOCATE 19,2 ,
,0:COLOR 2,0:PRINT " TIPO ? " ;GOSUB 1190:LOCATE 19,2 ,0:COLOR 2,1:PRINT " TIPO ? 

520 LOCATE 19,11,0:INPUT "",D$:WRITE #1,D$ 
530 GOSUB 1190:LOCATE 21,2 ,0:COLOR 2,1:PRINT " MOTIVO ? " :GOSUB 1190:LOCATE 21,
2 ,0:COLOR 2,0:PRINT " MOTIVO ? " ;GOSUB 1190:LOCATE 21,2 ,0:COLOR 2,1:PRINT " MO
TIVO ? "
540 LOCATE 21,13,0:INPUT "",D$:WRITE #1,D$ 
550 CLOSE #1 
560 GOSUB 1130 
570 IF ACS=999 THEN GOTO 1700 
580 GOSUB 1040 
590 ' LEER 
600 COLOR 1,3:CLS:LOCATE 10,17:INPUT " INTRODUCIR EL NUMERO DE REFERENCIA (LUEGO
PULSE RETURN) : ",NULIST 60000-
610 COD$=NUM$+"IPV" 
620 OPEN "I",#1,COD$ 
630 GOSUB 1290:GOSUB 1550 
640 LOCATE 3,2,0:COLOR 2,1: PRINT " HA SIDO DIAG. DE GLAUCOMA ? .."
650 INPUT #1,D$ 
660 IF D$="1" THEN LOCATE 3,33,0:COLOR 2,1:PRINT " SI " : GOTO 680
670 IF D$="2" THEN LOCATE 3,41,0:COLOR 2,1:PRINT " NO " : GOTO 880
680 LOCATE 3,52,0:COLOR 2,1:PRINT " HACE CUANTO TIEMPO ? "
690 INPUT #1,D$:LOCATE 3,76:PRINT D$ 
700 LOCATE 5,2,0:COLOR 2,1: PRINT " TRAT. PREVIO DEL GLAUCOMA ? .."
710 INPUT #1,D$ 
720 IF D$="1" THEN LOCATE 5,33,0:COLOR 2,1:PRINT " SI " : GOTO 740
730 IF D$="2" THEN LOCATE 5,41,0:COLOR 2,1:PRINT " NO " : GOTO 880
740 LOCATE 7,2,0:COLOR 2,1: PRINT " TRAT. MEDICO "
750 INPUT #1,D$:LOCATE 7,17,0:PRINT D$ 
760 LOCATE 9,2,0:COLOR 2,1: PRINT " REGULARIDAD ?....."
770 INPUT #1,D$ 
780 IF D$="1" THEN LOCATE 9,33,0:COLOR 2,1:PRINT " SI " :GOTO 800
790 IF D$="2" THEN LOCATE 9,41,0:COLOR 2,1:PRINT " NO " :GOTO 800
800 LOCATE 11,2,0:COLOR 2,1:PRINT " TRAT. QUIRURGICO ?....."
810 INPUT #1,D$:LOCATE 11,33,0:PRINT D$ 
820 LOCATE 13,2,0:COLOR 2,1:PRINT " INTOLERANCIA AL TRATAMIENTO ? "
830 INPUT #1,D$ 
840 IF D$="1" THEN LOCATE 13,33,0:COLOR 2,1:PRINT " SI " :GOTO 860
850 IF D$="2" THEN LOCATE 13,41,0:COLOR 2,1:PRINT " NO " :GOTO 880

```

```

860 LOCATE 13,52,0:COLOR 2,1:PRINT " TIPO ? "
870 INPUT #1,D$:LOCATE 13,61,0:PRINT D$
880 LOCATE 15,2,0:COLOR 2,1:PRINT " TRAT. PREVIO CORTICOIDES ? . . .
890 INPUT #1,D$:
900 IF D$="1" THEN LOCATE 15,33,0:COLOR 2,1:PRINT " SI " ; GOTO 920
0
910 IF D$="2" THEN LOCATE 15,41,0:COLOR 2,1:PRINT " NO " ; GOTO 980
920 LOCATE 17,2,0:COLOR 2,1:PRINT " CUANDO Y DURACION ? "
930 INPUT #1,D$:LOCATE 17,24,0:PRINT D$:
940 LOCATE 19,2,0:COLOR 2,1:PRINT " TIPO ? "
950 INPUT #1,D$:LOCATE 19,11,0:PRINT D$:
960 LOCATE 21,2,0:COLOR 2,1:PRINT " MOTIVO ? "
970 INPUT #1,D$:LOCATE 21,13,0:PRINT D$:
980 CLOSE #1
990 GOSUB 1130
1000 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
1010 GOSUB 1550
1020 GOSUB 1130
1030 GOSUB 1040
1040 , CAMBIO PROGRAMA
1050 COLOR 0,3:CLS
1060 LOCATE 4,15,0:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A"
1070 LOCATE 7,20:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
1080 LOCATE 9,20:COLOR 1,3:PRINT " 2 - VOLVER AL MENU"
1090 A$=INKEY$:
1100 IF A$="1" THEN CHAIN "B:BBB.BAS"
1110 IF A$="2" THEN CHAIN "B:MENU.BAS",400
1120 GOTO 1090
1130 , PULSE RETURN
1140 LOCATE 24,40,0:COLOR 2,1:PRINT " PULSE RETURN "
1150 A$=INKEY$:
1160 IF A$=CHR$(13) THEN GOTO 1180
1170 GOTO 1150
1180 LOCATE 24,40,0:COLOR 2,0:PRINT "
1190 , TIEMPO
1200 FOR TP=1 TO 100:NEXT
1210 RETURN
1220 COLOR 0,3:CLS
1230 LOCATE 1,1,0 :COLOR 3,1:PRINT " I N T E R R O G A T O R I O
P R E V I O

```

```

1240 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A"
1250 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS "
1260 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS "
1270 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL "
1280 RETURN
1290 ' CUADRO 1
1300 COLOR 2,0:CLS
1310 LOCATE 1,2,0:COLOR 1,3:PRINT " I N T E R R O G A T O R I O P R E V I O "
1320 LOCATE 3,2,0:COLOR 2,0:PRINT " HA SIDO DIAG. DE GLAUCOMA ?... "
1330 LOCATE 3,33,0:COLOR 2,0:PRINT " SI (1) "
1340 LOCATE 3,41,0:COLOR 2,0:PRINT " NO (2) "
1350 LOCATE 3,52,0:COLOR 2,0:PRINT " HACE CUANTO TIEMPO ? "
1360 LOCATE 5,2,0:COLOR 2,0:PRINT " TRATAMIENTO PREVIO ?....."
1370 LOCATE 5,33,0:COLOR 2,0:PRINT " SI (1) "
1380 LOCATE 5,41,0:COLOR 2,0:PRINT " NO (2) "
1390 LOCATE 7,2,0:COLOR 2,0:PRINT " TRAT. MEDICO "
1400 LOCATE 9,2,0:COLOR 2,0:PRINT " REGULARIDAD ?....."
1410 LOCATE 9,33,0:COLOR 2,0:PRINT " SI (1) "
1420 LOCATE 9,41,0:COLOR 2,0:PRINT " NO (2) "
1430 LOCATE 11,2,0:COLOR 2,0:PRINT " TRAT. QUIRURGICO ?....."
1440 LOCATE 13,2,0:COLOR 2,0:PRINT " INTOLERANCIA AL TRATAMIENTO ?"
1450 LOCATE 13,33,0:COLOR 2,0:PRINT " SI (1) "
1460 LOCATE 13,41,0:COLOR 2,0:PRINT " NO (2) "
1470 LOCATE 13,52,0:COLOR 2,0:PRINT " TIPO ? "
1480 LOCATE 15,2,0:COLOR 2,0:PRINT " TRAT. PREVIO CORTICOIDES ?... "
1490 LOCATE 15,33,0:COLOR 2,0:PRINT " SI (1) "
1500 LOCATE 15,41,0:COLOR 2,0:PRINT " NO (2) "
1510 LOCATE 17,2,0:COLOR 2,0:PRINT " CUANDO Y DURACION ? "
1520 LOCATE 19,2,0:COLOR 2,0:PRINT " TIPO ? "
1530 LOCATE 21,2,0:COLOR 2,0:PRINT " MOTIVO ? "
1540 RETURN
1550 ' LINEAS
1560 LINE(7,19)-(385,19),3:LINE(7,30)-(385,30),3:LINE(7,19)-( 7,30),3:LINE(385,
19)-(385,30),3
1570 LINE(7,39)-(385,39),3:LINE( 7,50)-(385,50),3:LINE( 7,39)-( 7,50),3:LINE(3
85,39)-(385,50),3
1580 LINE(406,19)-(780,19),3:LINE(406,30)-(780,30),3:LINE(406,19)-(406,30),3:LIN
E(780,19)-(780,30),3
1590 LINE( 7,59)-(780,59),3:LINE( 7,70)-(780,70),3:LINE( 7,59)-( 7,70),3:LINE(7

```

```

80,59)-(780,70),3
1600 LINE( 7,79)-(385,79),3:LINE( 7,90)-(385,90),3:LINE( 7,79)-( 7,90),3:LINE( 3
35,79)-(385,90),3
1610 LINE( 7,99)-(780,99),3:LINE( 7,110)-(780,110),3:LINE( 7,99)-( 7,110),3:LIN
3(780, 99)-(780,110),3
1620 LINE( 7,119)-(385,119),3:LINE( 7,130)-(385,130),3:LINE( 7,119)-( 7,130),3:
LINE(385,119)-(385,130),3
1630 LINE(406,119)-(780,119),3:LINE(406,130)-(780,130),3:LINE(406,119)-(406,130)
,3:LINE(780,119)-(780,130),3
1640 LINE( 7,139)-(385,139),3:LINE( 7,150)-(385,150),3:LINE( 7,139)-( 7,150),3:
LINE(385,139)-(385,150),3
1650 LINE( 7,159)-(780,159),3:LINE( 7,170)-(780,170),3:LINE( 7,159)-( 7,170),3:
LINE(780,159)-(780,170),3
1660 LINE( 7,179)-(780,179),3:LINE( 7,190)-(780,190),3:LINE( 7,179)-( 7,190),3:
LINE(780,179)-(780,190),3
1670 LINE( 7,199)-(780,199),3:LINE( 7,210)-(780,210),3:LINE( 7,199)-( 7,210),3:
LINE(780,199)-(780,210),3
1680 RETURN
1690 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"IPV":OPEN "O",#1,COD$:GOTO 120
1700 COMMON ACS,NUM$:CHAIN "B:BBB.BAS",151

```

S U B P R O G R A M A : 10

```
5 COMMON DDD$,ACS
10 SCREEN 3:COLOR 1,3:CLS
20 DIM D(278),X(400),Y(400)
30 IF ACS=111 THEN GOTO 62000
40 COLOR 1,3:CLS:LOCATE 10,17,0:INPUT " INTRODUCIR EL NUMERO DE REFERENCIA (LUEG
O PULSE RETURN ) ":"NUM$"
50 SCREEN 3:COLOR 2,0:CLS
60 LOCATE 1,1,0:COLOR 3,1:PRINT " A S P E C T O   G O N I O S C O P I C O "
70 LOCATE 5,5,0:COLOR 2,0:PRINT "12   1   2   3   4   5   6   7   8
9   10   11"
80 LINE (20,50)-(500,50),1:LINE (20,65)-(500,65),1:LINE (20,71)-(500,71),1:LINE
(20,74)-(500,74),1:LINE (20,80)-(500,80),1:LINE (20,95)-(500,95),1
90 A=68
100 FOR X=20 TO 500 STEP 4:PSET(X,68),3:NEXT
110 LOCATE 8,73,0:COLOR 2,0:PRINT "ESPOLON ESCLERAL":LOCATE 7,73,0:PRINT "BANDA
ESCLERAL/C. SCHLEMM": LOCATE 6,73,0:PRINT "ANILLO DE SCHWALBE":LOCATE 5,73,0:PR
INT "CORNEA":LOCATE 9,73,0:PRINT "BANDA CILIAR":LOCATE 10,73,0:PRINT "RIBETE IRI
DEO DE FUCHS"
120 LOCATE 11,73,0:PRINT "IRIS"
130 OPEN "I",#1,"B:NADA":CL=2:GOSUB 1410:CLOSE #1
140 COD$=NUM$+"DGONIO"
150 OPEN "I",#2,COD$
160 GOSUB 1160
170 INPUT #2,A$
180 IF A$="1" THEN GOTO 260
190 IF A$="2" THEN GOTO 390
200 IF A$="3" THEN GOTO 530
210 IF A$="5" THEN GOTO 640
220 IF A$="6" THEN GOTO 1100
230 IF A$="FIN" THEN CLOSE #2:GOTO 5000
```

```

240 IF A$="4" THEN CLOSE #2:GOTO 5000
250 GOTO 210
260 'GONIOSINEQUIAS FILIFORMES Y CONOIDEAS
270 LOCATE 18,1,0:COLOR 2,0:PRINT" 1      2      3      4      5      6
7     8"
280 FOR MAS=0 TO 420 STEP 60:CO=1:GOSUB 960:NEXT
290   OPEN "I",#1,"B:GONISI1":CL=3:GOSUB 1410:CLOSE #1
300   OPEN "I",#1,"B:GONISI3":CL=3:GOSUB 1410:CLOSE #1
310 PAINT (279,190),3,3:PAINT (340,185),3,3:PAINT (397,187),3,3:PAINT (458,1
83),3,3
320 INPUT #2,DD
330 GOSUB 1240
340 INPUT #2,A
350 INPUT #2,B
360 PUT (20+A,50+B),D
370 INPUT #2,DD:IF DD=9999 THEN GOTO 160
380 GOTO 330
390 'GONIOSINEQUIAS LAMINARES
400 LOCATE 18,1,0:COLOR 2,0:PRINT" 1      2      3      4"
410 FOR MAS=0 TO 180 STEP 60:CO=1:GOSUB 960:NEXT
420   OPEN "I",#1,"B:GONISI2":CL=3:GOSUB 1410:CLOSE #1
430   OPEN "I",#1,"B:GONISI4":CL=3:GOSUB 1410:CLOSE #1
440   OPEN "I",#1,"B:GONISI5":CL=3:GOSUB 1410:CLOSE #1
450 PAINT(41,186),3,3:PAINT(100,185),3,3:PAINT(159,181),3,3:PAINT(224,181),3,3
460 INPUT #2,DD
470 GOSUB 1240
480 INPUT #2,A
490 INPUT #2,B
500 PUT (20+A,50+B),D
510 INPUT #2,DD:IF DD=9999 THEN GOTO 160
520 GOTO 470
530 'VASOS NORMALES Y PATOLOGICOS
540 LOCATE 18,1,0:COLOR 2,0:PRINT" 1      2      3      4      5      6
7     8"
550 FOR MAS=0 TO 420 STEP 60:CO=1:GOSUB 960:NEXT
560   OPEN "I",#1,"B:VASOS1":CL=3:GOSUB 1410:CLOSE #1
570   INPUT #2,DD
580 GOSUB 1240
590 INPUT #2,A
600 INPUT #2,B

```

```

610 PUT (20+A,50+B),D
620 INPUT #2,DD:IF DD=9999 THEN GOTO 160
630 GOTO 580
640 'SANGRE, ESCAMAS Y IRIDECTOMIA
650 LOCATE 18,1,0:COLOR 2,0:PRINT" 1      2      3      4      5      6"
660 FOR MAS=0 TO 300 STEP 60:CO=1:GOSUB 960:NEXT
670 OPEN "I",#1,"B:SANG":CL=3:GOSUB 1410:CLOSE #1
670
680 INPUT #2,DD
690 GOSUB 1240
690
700 INPUT #2,A
700 INPUT #2,A
710 INPUT #2,B
720 PUT (20+A,50+B),D
730 INPUT #2,DD:IF DD=9999 THEN GOTO 160
730
740 GOTO 690
750 'PIGMENTACION
760 LOCATE 18,1,0:COLOR 2,0:PRINT" 1      2      3      4      5      6"
770 FOR MAS=0 TO 300 STEP 60:CO=1:GOSUB 960:NEXT
780 OPEN "I",#1,"B:PIGL":CL=2:GOSUB 1340:CLOSE #1
780
790 INPUT #2,DD
790 GOSUB 1240
800 GOSUB 1240
810 INPUT #2,A
820 INPUT #2,B
830 PUT (20+A,50+B),D
840 INPUT #2,DD:IF DD=9999 THEN GOTO 160
840
850 GOTO 800
860 GOSUB 1530
870 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
880 COLOR 0,3:CLS
890 LOCATE 4,15,0:COLOR 0,3:PRINT" P U L S E L A O P C I O N E L E G I D
A "
900 LOCATE 7,20,0:COLOR 1,3:PRINT" 1 - CONTINUAR LA SESSION "
910 LOCATE 9,20,0:COLOR 1,3:PRINT" 2 - VOLVER AL MENU PRINCIPAL "
920 A$=INKEY$
930 IF A$="1" THEN CHAIN "B:QQQ.BAS"
930 IF A$="2" THEN CHAIN "B:MENU.BAS",400
940 GOTO 920
950 ' CUADROS
960 LINE(20+MAS,155)-(60+MAS,155),CO:LINE(20+MAS,200)-(60+MAS,200),CO:LINE(20+MAS
S,155)-(20+MAS,200),CO:LINE(60+MAS,155)-(60+MAS,200),CO
980 RETURN

```

```

990 , LINEAS VERDES CUADROS INFERIORES
1000 LINE(20,170)-(600,170),2:LINE(20,185)-(600,185),2:LINE(20,176)-(600,176),2:
LINE(20,179)-(600,179),2
1010 RETURN
1020 ' CUADRO OPCIONES DIBUJO
1030 LOCATE 12,2,0:COLOR 3,1:PRINT " O P C I O N E S D E D I B U J O "
1040 LOCATE 14,8,0:COLOR 3,0:PRINT " 1 - GONIOSINEQUIAS FILIFORMES Y CONOIDEAS"
1050 LOCATE 16,8,0:COLOR 3,0:PRINT " 2 - GONIOSINEQUIAS LAMINARES"
1060 LOCATE 18,8,0:COLOR 3,0:PRINT " 3 - VASOS NORMALES Y PATOLOGICOS"
1070 LOCATE 20,8,0:COLOR 3,0:PRINT " 4 - TERMINAR DE PINTAR"
1080 RETURN
1090 ' BORRA CUADRO OPCIONES DIBUJO
1100 LOCATE 12,2,0:COLOR 0,0:PRINT "
1110 LOCATE 14,8,0:COLOR 0,0:PRINT "
1120 LOCATE 16,8,0:COLOR 0,0:PRINT "
1130 LOCATE 18,8,0:COLOR 0,0:PRINT "
1140 LOCATE 20,8,0:COLOR 0,0:PRINT "
1150 COLOR 2,0:RETURN
1160 'BORRA CUADROS
1170 LOCATE 16,1:COLOR 2,0:PRINT "
1180 LOCATE 17,1:COLOR 2,0:PRINT "
1190 LOCATE 18,1:COLOR 2,0:PRINT "
1200 LOCATE 19,1:COLOR 2,0:PRINT "
1210 LOCATE 20,1:COLOR 2,0:PRINT "
1220 LOCATE 21,1:COLOR 2,0:PRINT "
1230 RETURN
1240 ' ELECCION DEL DIBUJO
1250 IF DD= 2 THEN MAS=60:CO=0:GOSUB 960:GET (80,155)-(120,200),D:CO=3:GOSUB 960
:GOTO 1330
1260 IF DD= 1 THEN MAS=0:CO=0:GOSUB 960:GET (20,155)-(60,200),D:CO=3:GOSUB 960
:GOTO 1330
1270 IF DD= 3 THEN MAS=120:CO=0:GOSUB 960:GET (140,155)-(180,200),D:CO=3:GOSUB
960:GOTO 1330
1280 IF DD= 4 THEN MAS=180:CO=0:GOSUB 960:GET (200,155)-(240,200),D :CO=3:GOSU

```

```

B 960:GOTO 1330
1290 IF DD= 5 THEN MAS=240:CO=0:GOSUB 960:GET ( 260,155)-( 300,200),D :CO=3:GOSU
B 960:GOTO 1330
1300 IF DD= 6 THEN MAS=300:CO=0:GOSUB 960:GET ( 320,155)-( 360,200),D :CO=3:GOSU
B 960:GOTO 1330
1310 IF DD= 7 THEN MAS=360:CO=0:GOSUB 960:GET ( 380,155)-( 420,200),D :CO=3:GOSU
B 960:GOTO 1330
1320 IF DD= 8 THEN MAS=420:CO=0:GOSUB 960:GET ( 440,155)-( 480,200),D :CO=3:GOSU
B 960:GOTO 1330
1330 RETURN
1340 ' LEER PIGMENTOS
1350 IF EOF (1) THEN GOTO 1400
1360 INPUT #1,F,G
1370 IF F=9999 AND G=9999 THEN GOTO 1400
1380 PSET (F,G),2
1390 GOTO 1350
1400 RETURN
1410 'SUBRUTINA DIBUJO DE LA LINEA VERDE
1420 T=1
1430 T=T+1
1440 IF EOF(1) THEN 1470
1450 INPUT #1,X(T),Y(T)
1460 GOTO 1430
1470 F=1
1480 F=F+1
1490 IF X(F)=0 OR X(F+1)=0 OR Y(F)=0 OR Y(F+1)=0 THEN GOTO 1480
1500 LINE (X(F),Y(F))-(X(F+1),Y(F+1)),CL :IF F= T-2 THEN RETURN
1510 GOTO 1480
1520 RETURN
1530 ' PULSE RETURN
1540 LOCATE 24,39:COLOR 3,1:PRINT " PULSE RETURN "
1550 A$=INKEY$
1560 IF A$=CHR$(13) THEN GOTO 1580
1570 GOTO 1550
1580 RETURN
1590 SCREEN 3:COLOR 2,0:CLS
1600 LOCATE 1,1,0:COLOR 3,1:PRINT " A S P E C T O   G O N I O S C O P I C O   "
1610 LOCATE 5,5,0:COLOR 2,0:PRINT "12 1 3 4 5 6 7 8
9 10 11"
1620 LINE (20,50)-(500,50),1:LINE (20,71)-(500,71),1:LINE (20,71)-(500,71),1:LINE

```

E (20,74)-(500,74),1:LINE (20,80)-(500,80),1:LINE (20,95)-(500,95),1  
1630 A=68  
1640 FOR X=20 TO 500 STEP 4:PSET(X,68),3:NEXT  
1650 LOCATE 8,73,0:COLOR 2,0:PRINT "ESPOLON ESCLERAL":LOCATE 7,73,0:PRINT "BAND  
A ESCLERAL/C. SCHLEMM": LOCATE 6,73,0:PRINT "ANILLO DE SCHWALBE":LOCATE 5,73,0:P  
RINT "CORNEA":LOCATE 9,73,0:PRINT "BANDA CILIAR":LOCATE 10,73,0:PRINT "RIBETE IR  
IDEO DE FUCHS"  
1660 LOCATE 11,73,0:PRINT "IRIS"  
1670 OPEN "I",#1,"B:NADA":CL=2:GOSUB 1410:CLOSE #1  
1680 NU\$=DDD\$:COD\$=NU\$+"DGONIO":GOTO 150

```

10 DIM X(400),Y(400),D(1622)
20 IF ACS=999 THEN GOTO 2010
30 IF ACS=111 THEN NUM$=DDD$:SCREEN 3:GOTO 1860
40 COLOR 2,0:SCREEN 3:CLS :GOSUB 1710
50 COLOR 3,1:CLS:LOCATE 10,17,0:INPUT "INTROUCIR EL NUMERO DE REFERENCIA (LUEGO
PULSE RETURN) :" ,NUM$
60 COD$=NUM$+"DPAP1"
70 OPEN "O",#1,COD$
80 GOSUB 530:CLOSE
90 OPEN "I",#1,"B:ART2":V=-230:GOSUB 1020:CLOSE
100 OPEN "I",#1,"B:ART3":V=+560:GOSUB 1020:CLOSE
110 PAINT (58,79),1,2: PAINT (58,71),1,2: PAINT (69,81),1,2: PAINT (71,96),1,2:
PAINT (672,101),1,2: PAINT (687,101),1,2: PAINT (687,83),1,2: PAINT (698,67),1,
2
120 GOSUB 1820 :LOCATE 24,30,0:COLOR 3,1:PRINT " MOVER EL DIBUJO DE LOS VASOS IZ
QUIERDOS "
130 IF ACS=999 THEN GOTO 2020
140 COD$=NUM$+"DPAP2"
150 OPEN "O",#1,COD$
160 GET(12,24)-(123,131),D
170 PAINT (DX(0),DY(0)),1,3:PAINT (DX(1),DY(1)),1,3
180 LOCATE 24,30,0:COLOR 3,1:PRINT " MOVER EL DIBUJO DE LOS VASOS IZQUIERDOS "
190 I=12:L=24:GOSUB 1660:LOCATE 24,30,0:COLOR 3,1:PRINT " MOVER EL DIBUJO DE LOS
VASOS DERECHOS "
200 GET (629,27)-(713,127),D
210 I=629:L=27:GOSUB 1660
220 CLOSE #1
230 GOSUB 350
240 IF ACS=999 THEN GOTO 2030
250 GOSUB 420
260 ' LEER DATOS
270 COLOR 1,3:CLS:LOCATE 10,17,8:COLOR 1,3:INPUT " INTRODUZCA EL NUMERO DE HISTO
RIAL (LUEGO PULSE RETURN) :" ,NUM$
280 COLOR 2,0:SCREEN 3:CLS
290 A$="DPAP":COD$=NUM$+A$
```

```

300 OPEN "I",#1,COD$          ADOPTA ESTA LINEA DE CODIGO
310 GOSUB 890
320 GOSUB 350
330 CLOSE #1
340 GOSUB 860
350 ' SUBRUTINA PULSE RETURN
360 LOCATE 24,20:COLOR 0,0:PRINT "
370 LOCATE 24,38:COLOR 0,1:PRINT " PULSE RETURN "
380 A$=INKEY$
390 IF A$=CHR$(13) THEN RETURN
400 GOTO 380
410 RETURN
420 ' SUBRUTINA PARA VOLVER AL MENU PRINCIPAL
430 SCREEN 3:COLOR 1,3:CLS
440 LOCATE 1,1: COLOR 3,1:PRINT " PULSE LA OPCION DESEADA "
450 LOCATE 7,21:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
460 LOCATE 11,21:COLOR 1,3:PRINT " 2 - VOLVER AL MENU PRINCIPAL "
470 A$=INKEY$
480 IF A$="1" THEN CHAIN "B:000.BAS"
490 IF A$="2" THEN CHAIN "B:MENU.BAS",400
500 GOTO 470
510 COLOR 2,0
520 RETURN
530 'SUBRUTINA DIBUJO PAPILA
540 COLOR 2,0:SCREEN 3:CLS
550 LOCATE 1,1:COLOR 1,3:PRINT " DIBUJO ESTRUCTICO DE LA "
      PAPELA"
560 LOCATE 3,31:COLOR 3,0:PRINT "O.D"
570 LOCATE 3,62:COLOR 3,0:PRINT "O.I"
580 CIRCLE (250,80),100,3
590 CIRCLE (500,80),100,3
600 LOCATE 24,30:COLOR 0,1:PRINT " SIGA LAS INSTRUCCIONES QUE APARECEN EN LISTAD
O ANTERIOR"
610 LOCATE 16,1:COLOR 3,0:PRINT "- SI PULSA (+) AUMENTA EL RADIO"
620 LOCATE 18,1:COLOR 3,0:PRINT "- SI PULSA (-) DISMINUYE EL RADIO"
630 LOCATE 20,1:COLOR 3,0:PRINT "- SI PULSA (V) AUMENTA VERTICALMENTE"
640 LOCATE 16,51:COLOR 3,0:PRINT "- SI PULSA (H) AUMENTA HORIZONTALMENTE"
650 LOCATE 18,51:COLOR 3,0:PRINT "- UTILICE LA FUNCION DE LOS NUMEROS"
660 LOCATE 20,51:COLOR 3,0:PRINT "- SI PULSA (B) LO GUARDA EN MEMORIA"

```

```

670 DIM Z$(15)
680 CX=250:CY=80:RAD=50:ASP=.5 :SUMA=0
690 CIRCLE(CX,CY),RAD,3,,,ASP
700 Z$=INKEY$
710 IF Z$="+" THEN CIRCLE(CX,CY),RAD,0,,,ASP:RAD=RAD+10:CIRCLE(CX,CY),RAD,3,,,AS
P
720 IF Z$="-" THEN CIRCLE(CX,CY),RAD,0,,,ASP:RAD=RAD-10:CIRCLE(CX,CY),RAD,3,,,AS
P
730 IF Z$="V" THEN CIRCLE(CX,CY),RAD,0,,,ASP:ASP=ASP+.1:CIRCLE(CX,CY),RAD,3,,,AS
P
740 IF Z$="H" THEN CIRCLE(CX,CY),RAD,0,,,ASP:ASP=ASP-.1:CIRCLE(CX,CY),RAD,3,,,AS
P
750 IF Z$="4" THEN CIRCLE(CX,CY),RAD,0,,,ASP:ASP:CX=CX-1 :CIRCLE(CX,CY),RAD,3,,,ASP
760 IF Z$="6" THEN CIRCLE(CX,CY),RAD,0,,,ASP:ASP:CX=CX+1 :CIRCLE(CX,CY),RAD,3,,,ASP
770 IF Z$="2" THEN CIRCLE(CX,CY),RAD,0,,,ASP:CY=CY+1 :CIRCLE(CX,CY),RAD,3,,,ASP
780 IF Z$="8" THEN CIRCLE(CX,CY),RAD,0,,,ASP:CY=CY-1 :CIRCLE(CX,CY),RAD,3,,,ASP
790 IF Z$="7" THEN CIRCLE(CX,CY),RAD,0,,,ASP:CY=CX-1 :CY=CY-1 :CIRCLE(CX,CY),RAD
'3,,ASP
800 IF Z$="3" THEN CIRCLE(CX,CY),RAD,0,,,ASP:CY=CX+1 :CY=CY+1 :CIRCLE(CX,CY),RAD
'3,,ASP
810 IF Z$="1" THEN CIRCLE(CX,CY),RAD,0,,,ASP:CY=CX-1 :CY=CY+1 :CIRCLE(CX,CY),RAD
'3,,ASP
820 IF Z$="9" THEN CIRCLE(CX,CY),RAD,0,,,ASP:CY=CX+1 :CY=CY-1 :CIRCLE(CX,CY),RAD
'3,,ASP
830 IF Z$="B" OR Z$="b" THEN CIRCLE(CX,CY),RAD,3,,,ASP:WRITE #1,CX,CY,RAD
'ASP:DX(SUMA)=(CX-1)-RAD:DY(SUMA)=CY: GOTO 850
840 GOTO 700
850 SUMA=SUMA+1
860 IF SUMA = 2 THEN RETURN
870 CX=500:CY=80:RAD=50:ASP=.5: PRINT CX:'PRINT CY
880 GOTO 690
890 'SUBRUTINA DIBUJO PAPILA
900 COLOR 2,0:SCREEN 3:CLS
910 LOCATE 1,1:COLOR 1,3:PRINT " D I B U J O   E S Q U E M A T I C O   D E   L A
P A P I L A "
920 LOCATE 3,31:COLOR 3,0:PRINT "O.D"
930 LOCATE 3,62:COLOR 3,0:PRINT "O.I"
940 CIRCLE (250,80),100,3
950 CIRCLE (500,80),100,3
960 INPUT #1,CX,CY,RAD,ASP:CIRCLE (CX,CY),RAD,3,,,ASP:DX(0)=(CX-1)-RAD:DY(0)=CY

```

```

970 INPUT #1,CX,CY,RAD,ASP:CIRCLE (CX,CY),RAD,3,,ASP:DX(1)=(CX-1)-RAD:DY(1)=CY
980 RETURN
990 T=1
1000 T=T+1
1010 INPUT #1,X(T),Y(T)
1020 IF EOF(1) THEN 1040
1030 GOTO 1000
1040 F=1
1050 F=F+1
1060 IF X(F)=0 OR X(F+1)=0 OR Y(F)=0 OR Y(F+1)=0 THEN GOTO 1050
1070 LINE (X(F)+V,Y(F))-(X(F+1)+V,Y(F+1)),2 :IF F= T-1 THEN RETURN
1080 GOTO 1050
1090 RETURN
1100 ' DIBUJO DE UNA LINEA A BASE DE CONTROL DEL CURSOR
1110 KEY OFF
1120 M=0:B=0
1130 LOCATE 20,30:COLOR 1,0:PRINT " DIBUJO DE LA LINEA VERDE -CONTESTE (S) - AL E
STAR LISTO"
1140 PRINT
1150 PRINT
1160 A$=INKEY$
1170 IF A$="S" OR A$="s" THEN GOTO 1200
1180 IF A$="N" OR A$="n" THEN GOTO 1380
1190 GOTO 1160
1200 LOCATE 20,30:COLOR 1,0:PRINT " DIBUJO DE LA LINEA
"
1210 CIRCLE (373,125),10,1
1220 GOTO 1330
1230 A=1:B=B+A :WRITE #1,X(B),Y(B)
1240 IF B=M-1 THEN GOTO 1200
1250 IF X(B)=0 THEN GOTO 1230
1260 LINE(X(B),Y(B))-(X(B+1),Y(B+1)),2
1270 GOTO 1230
1280 R=1
1290 IF X(R)=0 OR X(R+1)=0 OR Y(R)=0 OR Y(R+1)=0 THEN R=R+2:GOTO 1410
1300 LINE(X(R),Y(R))-(X(R+1),Y(R+1)),2
1310 R=R+1:GOTO 130
1320 END
1330 REM posicionamiento del cursor en la
1340 REM Y BORRA EL PUNTO ANTERIOR

```

1350 I=373:L=125  
 1360 PSET(I,L),3  
 1370 A\$=INKEY\$:  
 1380 IF A\$="4" THEN I=I-1:PSET(I,L),4:PSET(I+1,L),0  
 1390 IF A\$="6" THEN I=I+1:PSET(I,L),4:PSET(I-1,L),0  
 1400 IF A\$="8" THEN L=L-1:PSET(I,L),4:PSET(I,L+1),0  
 1410 IF A\$="2" THEN L=L+1:PSET(I,L),4:PSFT(I,L-1),0  
 1420 IF A\$="7" THEN I=I-1 : L=L-1:PSET(I,L),4:PSET(I+1,L+1),0  
 1430 IF A\$="9" THEN I=I+1 : L=L-1:PSET(I,L),4:PSET(I-1,L+1),0  
 1440 IF A\$="1" THEN I=I-1 : L=L+1:PSET(I,L),4:PSET(I+1,L-1),0  
 1450 IF A\$="3" THEN I=I+1 : L=L+1:PSET(I,L),4:PSET(I-1,L-1),0  
 1460 IF A\$="M" OR A\$="m" THEN PSET(X(M),Y(M)) ,4:M=M+1:X(M)=I:Y(M)=I:GOTO 1370  
 1470 IF A\$="F" OR A\$="f" THEN M=M+1:X(M)=0:Y(M)=0:GOTO 1490  
 1480 GOTO 1370  
 1490 GOTO 1230  
 1500 A\$=INKEY\$:  
 1510 IF A\$="4" THEN PUT(I,L),D,XOR:I=I-4:PUT(I,L),D,XOR:GOTO 1600  
 1520 IF A\$="6" THEN PUT(I,L),D,XOR:I=I+4:PUT(I,L),D,XOR:GOTO 1600  
 1530 IF A\$="8" THEN PUT(I,L),D,XOR:L=L-4:PUT(I,L),D,XOR:GOTO 1600  
 1540 IF A\$="2" THEN PUT(I,L),D,XOR:L=L+4:PUT(I,L),D,XOR:GOTO 1600  
 1550 IF A\$="7" THEN PUT(I,L),D,XOR:I=I-4 : L=L-4:PUT(I,L),D,XOR:GOTO 1600  
 1560 IF A\$="9" THEN PUT(I,L),D,XOR:I=I+4 : L=L-4:PUT(I,L),D,XOR:GOTO 1600  
 1570 IF A\$="1" THEN PUT(I,L),D,XOR:I=I-4 : L=L+4:PUT(I,L),D,XOR:GOTO 1600  
 1580 IF A\$="3" THEN PUT(I,L),D,XOR:I=I+4 : L=L+4:PUT(I,L),D,XOR:GOTO 1600  
 1590 IF A\$="M" OR A\$="m" THEN WRITE #1,I,L:GOTO 1610  
 1600 GOTO 1500  
 1610 RETURN  
 1620 LOCATE 24,25:COLOR 0,0:PRINT "  
 1630 LOCATE 24,30:COLOR 0,1:PRINT "  
 1640 LOCATE 16,1:COLOR 0,0:PRINT "  
 1650 LOCATE 18,1:COLOR 0,0:PRINT "  
 1660 LOCATE 20,1:COLOR 0,0:PRINT "  
 1670 LOCATE 16,51:COLOR 0,0:PRINT "  
 1680 LOCATE 18,51:COLOR 3,0:PRINT "  
 1690 LOCATE 20,51:COLOR 3,0:PRINT "  
 1700 RETURN  
 1710 ' ENTRADA  
 1720 SCREEN 3:COLOR 1,3:CLS

```

1730 LOCATE 1,1,0:COLOR 3,1:PRINT " D I B U J O E S Q U E M A T I C O D E
L A P A P I L A "
1740 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A "
1750 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS "
1760 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS "
1770 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU "
1780 A$=INKEY$
1790 IF A$="1" THEN RETURN
1800 IF A$="2" THEN GOTO 1840
1810 IF A$="3" THEN CHAIN "B:MENU.BAS"
1820 GOTO 1780
1830 RETURN
1840 ' LEER
1850 COLOR 1,3:CLS:LOCATE 10,17,0:INPUT " INTROCUCIR EL NUMERO DE REFERENCIA (LUE
GO PULSE RETURN) : ",NUM$
1860 COD$=NUM$+"DPAP1"
1870 OPEN "I",#1,COD$
1880 GOSUB 890:CLOSE
1890 OPEN "I",#1,"B:ART2":V=-230:GOSUB 1020:CLOSE
1900 OPEN "I",#1,"B:ART3":V=+560:GOSUB 1020:CLOSE
1910 PAINT (58,79),1,2: PAINT (58,71),1,2: PAINT (69,81),1,2: PAINT (71,96),1,2
:PAINT (672,101),1,2: PAINT (687,101),1,2: PAINT (687,83),1,2: PAINT (698,67),1
2
1920 COD$=NUM$+"DPAP2"
1930 OPEN "I",#1,COD$
1940 PAINT (DX(0),DY(0)),1,3:PAINT (DX(1),DY(1)),1,3
1950 GET(12,24)-(123,131),D:INPUT #1,I,L:PUT(12,24),D,XOR
1960 GET(629,27)-(713,127),D:INPUT #1,I,L:PUT(629,27),D,XOR:PUT (I,L),D,XOR
1970 CLOSE
1980 GOSUB 350
1990 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
2000 GOSUB 420
2010 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"DPAP1":OPEN "O",#1,COD$:GOSUB 53
0:CLOSE:GOTO 90
2020 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"DPAP2":GOTO 150
2030 COMMON ACS,NUM$ :CHAIN "B:000.BAS",179

```

```

10 IF ACS=111 THEN NUM$=DDD$:GOTO 700
20 SCREEN 3:COLOR 1,3:CLS:COLOR 3,1:LOCATE 1,1:PRINT "T R A T A M I E N T O "
30 LOCATE 4,15:COLOR 0,3:PRINT "P U L S E L A O P C I O N E L E G I D A "
40 LOCATE 7,20:COLOR 1,3:PRINT "1 - INTRODUCIR DATOS"
50 LOCATE 9,20:COLOR 1,3:PRINT "2 - LEER DATOS"
60 LOCATE 11,20:COLOR 1,3:PRINT "3 - VOLVER AL MENU PRINCIPAL"
70 A$=INKEY$
80 IF A$="1" THEN GOTO 120
90 IF A$="2" THEN GOTO 680
100 IF A$="3" THEN CHAIN "B:MENU.BAS",400
110 GOTO 70
120 COLOR 3,1:CLS:LOCATE 10,17,8:INPUT "INTRODUZCA EL NUMERO DE HISTORIAL (LUEGO
PULSE RETURN) :",NUM$
130 IF ACS=999 THEN GOTO 1770
140 GOSUB 1420
150 LOCATE 6,11:COLOR 2,1:PRINT "PRIMER COLIRIO"
160 LOCATE 24,36:COLOR 0,1:PRINT "INTRODUZCA LOS DATOS (LUEGO PULSE RETURN)"
170 A$="TRA":COD$=NUM$+A$
180 OPEN "O","#1,COD$"
190 LOCATE 9,40,8:COLOR 2,0:INPUT",B$: WRITE #1,B$
200 LOCATE 11,40,8:COLOR 2,0:INPUT",B$: WRITE #1,B$
210 LOCATE 13,40,8:COLOR 2,0:INPUT",B$: WRITE #1,B$
220 CLS:GOSUB 1420
230 LOCATE 24,36:COLOR 0,1:PRINT "INTRODUZCA LOS DATOS (LUEGO PULSE RETURN)"
240 LOCATE 6,11:COLOR 2,1:PRINT "SEGUNDO COLIRIO"
250 LOCATE 9,40,8:COLOR 2,0:INPUT",B$: WRITE #1,B$
260 LOCATE 11,40,8:COLOR 2,0:INPUT",B$: WRITE #1,B$
270 LOCATE 13,40,8:COLOR 2,0:INPUT",B$: WRITE #1,B$
280 CLS:GOSUB 1420
290 LOCATE 24,36:COLOR 0,1:PRINT "INTRODUZCA LOS DATOS (LUEGO PULSE RETURN)"
300 LOCATE 6,11:COLOR 2,1:PRINT "TERCER COLIRIO"
310 LOCATE 9,40,8:COLOR 2,0:INPUT",B$: WRITE #1,B$
320 LOCATE 11,40,8:COLOR 2,0:INPUT",B$: WRITE #1,B$
330 LOCATE 13,40,8:COLOR 2,0:INPUT",B$: WRITE #1,B$
340 CLS:GOSUB 1420
350 LOCATE 24,36:COLOR 0,1:PRINT "INTRODUZCA LOS DATOS (LUEGO PULSE RETURN)"

```

```

360 LOCATE 6,11:COLOR 2,1:PRINT " POMADA "
370 LOCATE 9,40,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
380 LOCATE 11,40,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
390 LOCATE 13,40,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
400 CLS:GOSUB 1420
410 LOCATE 24,36:COLOR 0,1:PRINT " INTRODUZCA LOS DATOS (LUEGO PULSE RETURN) "
420 LOCATE 6,11:COLOR 2,1:PRINT " VIA ORAL " ;LOCATE 11,4:COLOR 3,0:PRINT
" NUMERO DE UNIDADES AL DIA " ; LOCATE 13,2:COLOR 3,0:PRINT " DISTRIBUCION DE
LAS UNIDADES/DIA"
430 LOCATE 9,40,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
440 LOCATE 11,40,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
450 LOCATE 13,40,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
460 CLS:GOSUB 1420
470 LOCATE 24,36:COLOR 0,1:PRINT " INTRODUZCA LOS DATOS (LUEGO PULSE RETURN) "
480 LOCATE 6,11:COLOR 2,1:PRINT " VIA PARENTERAL " ;LOCATE 11,4:COLOR 3,0:PRINT
" NUMERO DE UNIDADES AL DIA " ; LOCATE 13,2:COLOR 3,0:PRINT " DISTRIBUCION DE
LAS UNIDADES/DIA"
490 LOCATE 9,40,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
500 LOCATE 11,40,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
510 LOCATE 13,40,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
520 GOSUB 1560
530 LOCATE 17,23,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
540 COLOR 2,0:CLS
550 GOSUB 1630
560 LOCATE 24,36:COLOR 0,1:PRINT " INTRODUZCA LOS DATOS (LUEGO PULSE RETURN) "
570 LOCATE 6,26,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
580 LOCATE 8,26,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
590 LOCATE 10,26,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
600 LOCATE 12,26,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
610 LOCATE 14,26,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
620 LOCATE 16,26,8:COLOR 2,0:INPUT "",B$ : WRITE #1,B$
630 LOCATE 24,35:COLOR 0,0:PRINT ""
640 LOCATE 24,36:COLOR 1,3:PRINT " ESPERE UN MOMENTO "
650 CLOSE #1
660 IF ACS=999 THEN GOTO 1810
670 GOSUB 1320
680 ' LEER DATOS
690 COLOR 3,1:CLS:LOCATE 10,17,8:INPUT " INTRODUZCA EL NUMERO DE HISTORIAL ( LUEGO
PULSE RETURN ) : ",NUM$
```

```

700 GOSUB 1420
710 LOCATE 6,11:COLOR 2,1:PRINT " PRIMER COLIRIO "
720 A$=""TRA":COD$=NUM$+A$  

730 OPEN "I",#1,COD$  

740 INPUT #1,B$:LOCATE 9,40,8:COLOR 2,0:PRINT B$  

750 INPUT #1,B$:LOCATE 11,40,8:COLOR 2,0:PRINT B$  

760 INPUT #1,B$:LOCATE 13,40,8:COLOR 2,0:PRINT B$  

770 GOSUB 1250  

780 CLS:GOSUB 1420
790 LOCATE 6,11:COLOR 2,1:PRINT " SEGUNDO COLIRIO "
800 INPUT #1,B$:LOCATE 9,40,8:COLOR 2,0:PRINT B$  

810 INPUT #1,B$:LOCATE 11,40,8:COLOR 2,0:PRINT B$  

820 INPUT #1,B$:LOCATE 13,40,8:COLOR 2,0:PRINT B$  

830 GOSUB 1250
840 CLS:GOSUB 1420
850 LOCATE 6,11:COLOR 2,1:PRINT " TERCER COLIRIO "
860 INPUT #1,B$:LOCATE 9,40,8:COLOR 2,0:PRINT B$  

870 INPUT #1,B$:LOCATE 11,40,8:COLOR 2,0:PRINT B$  

880 INPUT #1,B$:LOCATE 13,40,8:COLOR 2,0:PRINT B$  

890 GOSUB 1250
900 CLS:GOSUB 1420
910 LOCATE 6,11:COLOR 2,1:PRINT " POMADA "
920 INPUT #1,B$:LOCATE 9,40,8:COLOR 2,0:PRINT B$  

930 INPUT #1,B$:LOCATE 11,40,8:COLOR 2,0:PRINT B$  

940 INPUT #1,B$:LOCATE 13,40 :COLOR 2,0:PRINT B$  

950 GOSUB 1250
960 CLS:GOSUB 1420
970 LOCATE 6,11:COLOR 2,1:PRINT " VIA ORAL "
980 INPUT #1,B$:LOCATE 9,40,8:COLOR 2,0:PRINT B$  

990 INPUT #1,B$:LOCATE 11,40,8:COLOR 2,0:PRINT B$  

1000 INPUT #1,B$:LOCATE 13,40 ;COLOR 2,0:PRINT B$  

1010 GOSUB 1250
1020 CLS:GOSUB 1420
1030 LOCATE 6,11:COLOR 2,1:PRINT " VIA PARENTERAL "
1040 INPUT #1,B$:LOCATE 9,40,8:COLOR 2,0:PRINT B$  

1050 INPUT #1,B$:LOCATE 11,40,8:COLOR 2,0:PRINT B$  

" NUMERO DE UNIDADES AL DIA ";
LOCATE 13,2:COLOR 3,0:PRINT " DISTRIBUCION DE  

LAS UNIDADES/DIA"
LOCATE 11,4:COLOR 3,0:PRINT
" LOCATE 11,4:COLOR 3,0:PRINT
" LOCATE 13,2:COLOR 3,0:PRINT " DISTRIBUCION DE
LAS UNIDADES/DIA"

```

```

1060 INPUT #1,B$:LOCATE 13,40 :COLOR 2,0:PRINT B$ ELEGIDA
1070 GOSUB 1250
1080 GOSUB 1560
1090 INPUT #1,B$:LOCATE 17,23,8:COLOR 2,0:PRINT B$ ELEGIDA
1100 GOSUB 1250
1110 COLOR 2,0:CLS
1120 GOSUB 1630
1130 INPUT #1,B$:LOCATE 6,26,8:COLOR 2,0:PRINT B$ ELEGIDA
1140 INPUT #1,B$:LOCATE 8,26,8:COLOR 2,0:PRINT B$ ELEGIDA
1150 INPUT #1,B$:LOCATE 10,26,8:COLOR 2,0:PRINT B$ ELEGIDA
1160 INPUT #1,B$:LOCATE 12,26,8:COLOR 2,0:PRINT B$ ELEGIDA
1170 INPUT #1,B$:LOCATE 14,26,8:COLOR 2,0:PRINT B$ ELEGIDA
1180 INPUT #1,B$:LOCATE 16,26,8:COLOR 2,0:PRINT B$ ELEGIDA
1190 CLOSE
1200 GOSUB 1250
1210 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
1220 GOSUB 1320
1230 LOCATE 1,1,8
1240 END
1250 ' SUBRUTINA PULSE RETURN
1260 LOCATE 24,38:COLOR 0,0:PRINT "
1270 LOCATE 24,38:COLOR 0,3:PRINT " PULSE RETURN "
1280 A$=INKEY$
1290 IF A$=CHR$(13) THEN RETURN
1300 GOTO 1280
1310 RETURN
1320 ' SUBRUTINA VOVER MENU
1330 SCREEN 3:COLOR 1,3:CLS
1340 LOCATE 1,1:COLOR 3,1:PRINT " P U L S E L A O P C I O N E L E G I D A "
1350 LOCATE 7,21:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION"
1360 LOCATE 11,21:COLOR 1,3:PRINT " 2 - VOLVER AL MENU PRINCIPAL"
1370 A$=INKEY$
1380 IF A$="1" THEN CHAIN "B:RRR.BAS"
1390 IF A$="2" THEN CHAIN "B:MENU.BAS",400
1400 GOTO 1370
1410 RETURN
1420 'DIBUJO PRIMER CUADRO
1430 COLOR 2,0:CLS

```

```

1440 LOCATE 1,1,0:COLOR 1,3:PRINT "TRATAMIENTO MEDICAMENTO"
OSO"
1450 LOCATE 9,15:COLOR 3,0:PRINT "NOMBRE"
1460 LOCATE 11,5 :COLOR 3,0:PRINT "NUMERO DE INSTILACIONES/DIA"
1470 LOCATE 13,2,8 :COLOR 3,0:PRINT "DISTRIBUCION DE LA INSTILACIONES"
1480 LINE ( 0, 75)-(700,75),1
1490 LINE ( 0, 95)-(700,95),1
1500 LINE ( 0,115)-(700,115),1
1510 LINE ( 0,135)-(700,135),1
1520 LINE ( 0, 75)-(- 0,135),1
1530 LINE (700, 75)-(700,135),1
1540 LINE (297, 75)-(297,135),1
1550 RETURN
1560 LOCATE 17,2,0:COLOR 3,0:PRINT "OTRAS INDICACIONES"
1570 LINE ( 0,155)-(799,155),1
1580 LINE ( 0,175)-(799,175),1
1590 LINE ( 0,155)-(- 0,175),1
1600 LINE (799,155)-(799,175),1
1610 LINE (160,155)-(160,175),1
1620 RETURN
1630 'SUBRUTINA SEGUNDO CUADRO
1640 COLOR 2,0:CLS
1650 LOCATE 1,1,0:COLOR 1,3:PRINT "TRATAMIENTO QUIRURGICO"
"
1660 FOR A=45 TO 165 STEP 20:LINE ( 0, A)-(799, A),1 :NEXT A
1670 LINE ( 0,45)-( 0,165),1
1680 LINE (799,45)-(799,165),1
1690 LINE (184,45)-(184,165),1
1700 LOCATE 6, 2:COLOR 3,0:PRINT "INDICACION QUIRURGICA"
1710 LOCATE 8, 2:COLOR 3,0:PRINT "TIPO DE INTERVENCION"
1720 LOCATE 10, 2:COLOR 3,0:PRINT "OBSERVACIONES"
1730 LOCATE 12, 2:COLOR 3,0:PRINT "EN QUE OJO ?"
1740 LOCATE 14, 2:COLOR 3,0:PRINT "OBSERVACIONES"
1750 LOCATE 16, 2:COLOR 3,0:PRINT "FECHA PREVISTA"
1760 RETURN
1770 SCREEN 3:L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"TRA":OPEN "O",#1,COD$:G
OSUB 1420
1780 LOCATE 6,11:COLOR 2,1:PRINT "PRIMER COLIRIO"
1790 LOCATE 24,36:COLOR 0,1:PRINT "INTRODUZCA LOS DATOS (LUEGO PULSE RETURN)"
1800 GOTO 190
1810 COMMON ACS,NUM$:CHAIN "B:RRR.BAS"

```

S U B P R O G R A M A : 13 (7,130)-(799,130),3:LINE (7,130)-(799,130),3:LINE

```

10 IF ACS=999 THEN GOTO 4800
20 IF ACS=111 THEN NUM$=DDD$:GOTO 1960
30 SCREEN 3:COLOR 2,0:CLS
40 GOSUB 4730
50 A$=INKEY$
60 IF A$="1" THEN GOTO 100
70 IF A$="2" THEN GOTO 1940
80 IF A$="3" THEN CHAIN "B:MENU.BAS",400
90 GOTO 50
100 COLOR 3,1:CLS:LOCATE 10,17,0:INPUT " INTRODUCIR EL NUMERO DE REFERENCIA (LUE
GO PULSE RETURN) :" ,NUM$
110 COD$=NUM$+"CIR"
120 OPEN "O",#1,COD$
130 COLOR 2,0:CLS
140 GOSUB 3510
150 LINE (7,19)-(799,19),3: LINE (7,30)-(799,30),3: LINE (7,19)-(7,30),3: LINE
(799,19)-(799,30),3
160 LOCATE 3,2:COLOR 2,1:PRINT " TIPO DE INTERVENCION " :LOCATE 3,26,8:INPUT "",B
$ :WRITE #1,B$
170 LINE (7,39)-(799,39),3: LINE (7,50)-(799,50),3: LINE (7,39)-(7,50),3: LINE
(799,39)-(799,50),3
180 LOCATE 5,2:COLOR 2,1:PRINT " FECHA DE INTERVENCION " :LOCATE 5,27,8:INPUT ""
B$ :WRITE #1,B$
190 LOCATE 7,2:COLOR 2,1:PRINT 2,1:PRINT " OJO INTERVENIDO "
200 B$=INKEY$
210 IF B$="1" THEN LOCATE 7,21,0:PRINT " O.D.(1) " :WRITE #1,B$:GOTO 240
220 IF B$="2" THEN LOCATE 7,32,0:PRINT " O.I.(2) " :WRITE #1,B$:GOTO 240
230 GOTO 200
240 LINE (7,79)-(799,79),3: LINE (7,90)-(799,90),3: LINE (7,79)-(7,90),3: LINE
(799,79)-(799,90),3
250 LOCATE 9,2:COLOR 2,1:PRINT " CIRUJANO " :LOCATE 9,14,8:INPUT "",B$ :WRITE #1,B
$ :B$
260 LINE (7,99)-(799,99),3: LINE (7,110)-(799,110),3: LINE (7,99)-(7,110),3:
LINE (799,99)-(799,110),3
270 LOCATE 11,2:COLOR 2,1:PRINT " AYUDANTE " :LOCATE 11,14,8:INPUT "",B$ :WRITE #1
,B$
```

```

280 LINE (7,119)-(799,119),3: LINE (7,130)-(799,130),3: LINE (7,119)-(7,130)
'3: LINE (799,119)-(799,130),3
290 LOCATE 13,2:COLOR 2,1:PRINT " PRIMERA INTERVENCION ANTIGLAUCOMATOSA " :LOCATE
13,43,8:INPUT "",B$:WRITE #1,B$
300 LINE (7,139)-(799,139),3: LINE (7,150)-(799,150),3: LINE (7,139)-(7,150)
'3: LINE (799,139)-(799,150),3
310 LOCATE 15,2:COLOR 2,1:PRINT " TRATAMIENTO PREOPERATORIO " :LOCATE 15,31,8:INPUT
UT "",B$:WRITE #1,B$
320 LOCATE 17,2:COLOR 2,1:PRINT " ANESTESIA "
330 B$=INKEY$
340 IF B$="1" THEN LOCATE 17,16,8:PRINT " LOCAL (1)" ;WRITE #1,B$:GOTO 370
350 IF B$="2" THEN LOCATE 17,29,8:PRINT " GENERAL (2)" ;WRITE #1,B$:GOTO 370
360 GOTO 330
370 ' 2 CUADRO
380 GOSUB 3710
390 LOCATE 3,2:COLOR 2,1:PRINT " COLGAJO CONJUNTIVAL "
400 B$=INKEY$
410 IF B$="1" THEN LOCATE 3,25,0:PRINT " SUPERIOR(1) " ;WRITE #1,B$:GOTO 440
420 IF B$="2" THEN LOCATE 3,39,0:PRINT " INFERIOR(2) " ;WRITE #1,B$:GOTO 440
430 GOTO 400
440 LOCATE 5,2:COLOR 2,1:PRINT " SANGRA "
450 B$=INKEY$
460 IF B$="1" THEN LOCATE 5,12,0:PRINT " MUCHO(1) " ;WRITE #1,B$:GOTO 490
470 IF B$="2" THEN LOCATE 5,23,0:PRINT " POCO(2) " ;WRITE #1,B$:GOTO 490
480 GOTO 450
490 LOCATE 7,2:COLOR 2,1:PRINT " SE CAUTERIZAN VASOS "
500 B$=INKEY$
510 IF B$="1" THEN LOCATE 7,25,0:PRINT " SI(1) " ;WRITE #1,B$:GOTO 540
520 IF B$="2" THEN LOCATE 7,33,0:PRINT " NO(2) " ;WRITE #1,B$:GOTO 540
530 GOTO 500
540 LOCATE 9,2:COLOR 2,1:PRINT " PERFORACION DEL COLGAJO "
550 B$=INKEY$
560 IF B$="1" THEN LOCATE 9,29,0:PRINT " SI(1) " ;WRITE #1,B$:GOTO 600
570 IF B$="2" THEN LOCATE 9,37,0:PRINT " NO(2) " ;WRITE #1,B$:GOTO 600
580 GOTO 550
590 LINE (7,99)-(799,99),3: LINE (7,110)-(799,110),3: LINE (7,99)-(7,110),3: LINE
INE (799,99)-(799,110),3
600 LOCATE 11,2:COLOR 2,1:PRINT " COMPLICACIONES "
610 LINE (7,99)-(799,99),3: LINE (7,110)-(799,110),3: LINE (7,99)-(7,110),3: LINE
INE (799,99)-(799,110),3: LOCATE 11,20,8:INPUT "",B$:WRITE #1,B$

```

```

620   ' 3 CUADRO
630   GOSUB 3850
640   LOCATE 3,2,0:COLOR 2,1:PRINT " COLGAJO ESCLERAL "
650   B$=INKEY$
660   IF B$="1" THEN LOCATE 3,22:PRINT " SUPERIOR(1) " :WRITE #1,B$:GOTO 710
670   IF B$="2" THEN LOCATE 3,36:PRINT " INFERIOR(2) " :WRITE #1,B$:GOTO 710
680   IF B$="3" THEN LOCATE 3,50:PRINT " NASAL(3) " :WRITE #1,B$:GOTO 710
690   IF B$="4" THEN LOCATE 3,61:PRINT " TEMPORAL(4) " :WRITE #1,B$:GOTO 710
700   GOTO 650
710   LOCATE 5,2:COLOR 2,1:PRINT " TAMANO " :LINE ( 7,39)-(799,39),3: LINE ( 7,50)-(799,50),3: LINE ( 7,39)-(799,50),3:LOCATE 5,12,8:INPUT
    "",B$:WRITE #1,B$
720   LOCATE 7,2,0:COLOR 2,1:PRINT " DISECCION "
730   B$=INKEY$
740   IF B$="1" THEN LOCATE 7,14:PRINT " FACIL(1) " :WRITE #1,B$:GOTO 770
750   IF B$="2" THEN LOCATE 7,26:PRINT " DIFICIL(2) " :WRITE #1,B$:GOTO 770
760   GOTO 730
770   LOCATE 9,2:COLOR 2,1:PRINT " NATURALEZA DE LA ESCLERA "
780   B$=INKEY$
790   IF B$="1" THEN LOCATE 9,30,0:PRINT " NORMAL(1) " :WRITE #1,B$:GOTO 820
800   IF B$="2" THEN LOCATE 9,42,0:PRINT " FRIABLE(2) " :WRITE #1,B$:GOTO 820
810   GOTO 780
820   LOCATE 11,2,0:COLOR 2,1:PRINT " GROSOR DEL COLGAJO "
830   B$=INKEY$
840   IF B$="1" THEN LOCATE 11,24:PRINT " DELGADO(1) " :WRITE #1,B$:GOTO 890
850   IF B$="2" THEN LOCATE 11,37:PRINT " MEDIANO(2) " :WRITE #1,B$:GOTO 890
860   IF B$="3" THEN LOCATE 11,50:PRINT " GRUESO(3) " :WRITE #1,B$:GOTO 890
870   IF B$="4" THEN LOCATE 11,62:PRINT " IRREGULAR(4) " :WRITE #1,B$:GOTO 890
880   GOTO 830
890   LOCATE 13,2:COLOR 2,1:PRINT " ROTURA DEL COLGAJO "
900   B$=INKEY$
910   IF B$="1" THEN LOCATE 13,24:PRINT " SI(1) " :WRITE #1,B$:GOTO 940
920   IF B$="2" THEN LOCATE 13,32:PRINT " NO(2) " :WRITE #1,B$:GOTO 940
930   GOTO 900
940   LOCATE 15,2:COLOR 2,1:PRINT " DISECCION DE LA ESCLERA CON :"
950   B$=INKEY$
960   IF B$="1" THEN LOCATE 15,34:PRINT " CUCHILLA(1) " :WRITE #1,B$:GOTO 990
970   IF B$="2" THEN LOCATE 15,48:PRINT " ESCARIFICADOR(2) " :WRITE #1,B$:GOTO 990
980   GOTO 950
990   LOCATE 17,2:COLOR 2,1:PRINT " COMPLICACIONES " :LINE ( 7,159)-(799,159),3: LIN

```

```

E (7,170)-(799,170),3: LINE (7,159)-(7,170),3: LINE (799,159)-(799,170),3 :LOC
ATE 17,20,8:INPUT "",B$:WRITE #1,B$
1000 , 4 CUADRO
1010 GOSUB 4050
1020 LOCATE 3,2:COLOR 2,1:PRINT " TAMANO ":LINE (7,19)-(799,19),3: LINE (7,30)-
(799,30),3: LINE (7,19)-(7,30),3: LINE (799,19)-(799,30),3 :LOCATE 3,12,8:INPUT
:"",B$:WRITE #1,B$
1030 LOCATE 5,2:COLOR 2,1,0:PRINT " IRIDECTOMIA PREVIA "
1040 B$=INKEY$
1050 IF B$="1" THEN LOCATE 5,24:PRINT " SI(1) ":"WRITE #1,B$:GOTO 1080
1060 IF B$="2" THEN LOCATE 5,32:PRINT " NO(2) ":"WRITE #1,B$:GOTO 1080
1070 GOTO 1040
1080 LOCATE 7,2:COLOR 2,1:PRINT " PARACENTESIS "
1090 B$=INKEY$
1100 IF B$="1" THEN LOCATE 7,18:PRINT " SI(1) ":"WRITE #1,B$:GOTO 1130
1110 IF B$="2" THEN LOCATE 7,26:PRINT " NO(2) ":"WRITE #1,B$:GOTO 1130
1120 GOTO 1090
1130 LOCATE 9,2:COLOR 2,1:PRINT " SE HERNIA EL IRIS O CUERPO CILIAR "
1140 B$=INKEY$
1150 IF B$="1" THEN LOCATE 9,39:PRINT " SI(1) ":"WRITE #1,B$:GOTO 1180
1160 IF B$="2" THEN LOCATE 9,47:PRINT " NO(2) ":"WRITE #1,B$:GOTO 1180
1170 GOTO 1140
1180 LOCATE 11,2:COLOR 2,1:PRINT " SE CUATERIZA EL LECCHO ESCLERAL "
1190 B$=INKEY$
1200 IF B$="1" THEN LOCATE 11,36:PRINT " SI(1) ":"WRITE #1,B$:GOTO 1230
1210 IF B$="2" THEN LOCATE 11,44:PRINT " NO(2) ":"WRITE #1,B$:GOTO 1230
1220 GOTO 1190
1230 LOCATE 13,2:COLOR 2,1:PRINT " IRIDECTOMIA "
1240 B$=INKEY$
1250 IF B$="1" THEN LOCATE 13,17:PRINT " GRANDE(1) ":"WRITE #1,B$:GOTO 1290
1260 IF B$="2" THEN LOCATE 13,29:PRINT " MEDIANA(2) ":"WRITE #1,B$:GOTO 1290
1270 IF B$="3" THEN LOCATE 13,42:PRINT " REDUCIDA(3) ":"WRITE #1,B$:GOTO 1290
1280 GOTO 1240
1290 LOCATE 15,2:COLOR 2,1:PRINT " IRIDECTOMIA BASAL "
1300 B$=INKEY$
1310 IF B$="1" THEN LOCATE 15,23:PRINT " SI(1) ":"WRITE #1,B$:GOTO 1340
1320 IF B$="2" THEN LOCATE 15,31:PRINT " NO(2) ":"WRITE #1,B$:GOTO 1340
1330 GOTO 1300
1340 LOCATE 17,2:COLOR 2,1:PRINT " SE VE EL CANAL DE SCHLEMM "
1350 B$=INKEY$

```

```

1360 IF B$="1" THEN LOCATE 17,31:PRINT " SI(1) ":";WRITE #1,B$:GOTO 1390
1370 IF B$="2" THEN LOCATE 17,39:PRINT " NO(2) ":";WRITE #1,B$:GOTO 1390
1380 GOTO 1350
1390 LOCATE 19,2:COLOR 2,1:PRINT " COMPLICACIONES ":"LINE (7,179)-(799,179),3: LI
NE (7,190)-(799,190),3: LINE (7,179)-(7,190),3: LINE (799,179)-(799,190),3 :LO
CATE 19,20,8:INPUT "",B$:WRITE #1,B$
1400 ,5 CUADRO
1410 GOSUB 4270
1420 LOCATE 3,2,0:COLOR 2,1:PRINT " TIPO DE SUTURA DEL COLGAJO ESCLERAL ":"LINE (
7,19)-(799,19),3: LINE (7,30)-(799,30),3: LINE (7,19)-(7,30),3: LINE (799,19)-
(799,30),3:LOCATE 3,41,8:INPUT "",B$:WRITE #1,B$
1430 LOCATE 5,2,0:COLOR 2,1:PRINT " NUMERO DE PUNTOS ":"LINE (7,39)-(799,39),3: L
INE (7,50)-(799,50),3: LINE (7,39)-(7,50),3: LINE (799,39)-(799,50),3 :LOCATE
5,22,8:INPUT "",B$:WRITE #1,B$
1440 LOCATE 7,2,0:COLOR 2,1:PRINT " TIPO DE SUTURA DEL COLGAJO CONJUNTIVAL ":"LIN
E (7,59)-(799,59),3: LINE (7,70)-(799,70),3: LINE (7,59)-(7,70),3: LINE (799,5
9)-(799,70),3:LOCATE 7,44,8:INPUT "",B$:WRITE #1,B$
1450 LOCATE 9,2,0:COLOR 2,1:PRINT " NUMERO DE PUNTOS ":"LINE (7,79)-(799,79),3: L
INE (7,90)-(799,90),3: LINE (7,79)-(7,90),3: LINE (799,79)-(799,90),3:LOCATE 9
,22,8:INPUT "",B$:WRITE #1,B$
1460 LOCATE 11+C,2,0:COLOR 2,1:PRINT " COMPLICACION ":"LINE (7,99+B)-(799,99+B),3
: LINE (7,110+B)-(799,110+B),3: LINE (7,99+B)-(7,110+B),3: LINE (799,99+B)-(79
9,110+B),3:LOCATE 11+C,20,8:INPUT "",B$:WRITE #1,B$
1470 LOCATE 24,30,0: PRINT " ALGUNA COMPLICACION MAS (S/N) "
1480 B$=INKEY$
1490 IF B$="S" OR B$="s" THEN C=C+2:B=B+20:WRITE #1,B$:LOCATE 24,30,0: COLOR 2,0
:PRINT "
1500 IF B$="N" OR B$="n" THEN WRITE #1,B$ :GOTO 1460
1510 GOTO 1480
1520 ,6 CUADRO
1530 GOSUB 4410
1540 LOCATE 3,2:COLOR 2,1:PRINT " PUPILA "
1550 B$=INKEY$
1560 IF B$="1" THEN LOCATE 3,12:PRINT " CENTRADA(1) ":";WRITE #1,B$:GOTO 1590
1570 IF B$="2" THEN LOCATE 3,26:PRINT " DESPLAZADA(2) ":";WRITE #1,B$:GOTO 1590
1580 GOTO 1550
1590 LOCATE 5,2:COLOR 2,1:PRINT " CAMARA ANTERIOR "
1600 B$=INKEY$
1610 IF B$="1" THEN LOCATE 5,21:PRINT " PROFUNDA(1) ":";WRITE #1,B$:GOTO 1650
1620 IF B$="2" THEN LOCATE 5,35:PRINT " MEDIA(2) ":";WRITE #1,B$:GOTO 1650

```

```

1630 IF B$="3" THEN LOCATE 5,46:PRINT " PLANA(3) " :WRITE #1,B$:GOTO 1650
1640 GOTO 1600
1650 LOCATE 7,2:COLOR 2,1:PRINT " SE REFORMA "
1660 B$=INKEY$
1670 IF B$="1" THEN LOCATE 7,16:PRINT " SI(1) " :WRITE #1,B$:GOTO 1700
1680 IF B$="2" THEN LOCATE 7,24:PRINT " NO(2) " :WRITE #1,B$:GOTO 1750
1690 GOTO 1660
1700 LOCATE 7,32:COLOR 2,0:PRINT " AIRE(1) SUERO(2) " :LINE (7,59)-(409,59),3:
LINE (7,70)-(409,70),3: LINE (7,59)-(7,70),3: LINE (409,59)-(409,70),3:COLOR 2
1710 B$=INKEY$
1720 IF B$="1" THEN LOCATE 7,32:PRINT " AIRE(1) " :WRITE #1,B$:GOTO 1750
1730 IF B$="2" THEN LOCATE 7,42:PRINT " SUERO(2) " :WRITE #1,B$:GOTO 1750
1740 GOTO 1710
1750 LOCATE 9,2:COLOR 2,1:PRINT " ANAT. PATOLOGICA "
1760 B$=INKEY$
1770 IF B$="1" THEN LOCATE 9,22:PRINT " SI(1) " :WRITE #1,B$:GOTO 1800
1780 IF B$="2" THEN LOCATE 9,30:PRINT " NO(2) " :WRITE #1,B$:GOTO 1800
1790 GOTO 1760
1800 LOCATE 11,2:COLOR 2,0:PRINT " TRATAMIENTO POST. " SI(1) NO(2) "
1810 LOCATE 11,2:COLOR 2,1:PRINT " TRATAMIENTO POST. " :LINE (7,99)-(288,99),3: LI
NE (7,110)-(288,110),3: LINE (7,99)-(7,110),3: LINE (288,99)-(288,110),3
1820 B$=INKEY$
1830 IF B$="1" THEN LOCATE 11,22:PRINT " SI(1) " :WRITE #1,B$:GOTO 1870
1840 IF B$="2" THEN LOCATE 11,30:PRINT " NO(2) " :WRITE #1,B$:GOSUB 4530
1850 GOTO 1820
1860 IF F>80 THEN GOTO 4530
1870 LOCATE 13+R,2:COLOR 2,0:PRINT " - " : LINE (7,119+F)-(799,119+F),3: LINE (7,
130+F)-(799,130+F),3: LINE (7,119+F)-(7,130+F),3: LINE (799,119+F)-(799,130+F)
3
1880 LOCATE 13+R,5,8:INPUT "",B$:WRITE #1,B$ :
1890 LOCATE 24,30,0:COLOR 3,1:PRINT " MAS TRATAMIENTO (S/N) "
1900 B$=INKEY$
1910 IF B$="S" OR B$="s" THEN LOCATE 24,30,0:WRITE #1,B$:COLOR 2,0:PRINT "
" :R=R+2:F=F+20:GOTO 1860
1920 IF B$="N" OR B$="n" THEN WRITE #1,B$:GOSUB 4530
1930 GOTO 1900
1940 ' LEER
1950 COLOR 1,3:CLS:LOCATE 10,17,0:INPUT " INTRODUCIR EL NUMERO DE REFERENCIA ( LU
EGO PULSE RETURN ) : ",NUM$
```

```

1960 COD$=NUM$+"CIR"
1970 OPEN "I",#1,COD$
1980 COLOR 2,0:CLS
1990 GOSUB 3510
2000 LINE (7,19)-(799,19),3: LINE (7,30)-(799,30),3: LINE (7,19)-( 7,30),3: LIN
E (799,19)-(799,30),3
2010 INPUT #1,B$:LOCATE 3,2:COLOR 2,1:PRINT " TIPO DE INTERVENCION " :LOCATE 3,26
'8:PRINT B$
2020 LINE (7,39)-(799,39),3: LINE (7,50)-(799,50),3: LINE (7,39)-( 7,50),3: LIN
E (799,39)-(799,50),3
2030 INPUT #1,B$:LOCATE 5,2:COLOR 2,1:PRINT " FECHA DE INTERVENCION " :LOCATE 5,2
7,8:PRINT B$
2040 LOCATE 7,2:COLOR 2,1:PRINT " OJO INTERVENIDO "
2050 INPUT #1,B$#
2060 IF B$="1" THEN LOCATE 7,21,0:PRINT " O.D.(1) " : GOTO 2080
2070 IF B$="2" THEN LOCATE 7,32,0:PRINT " O.I.(2) " : GOTO 2080
2080 LINE (7,79)-(799,79),3: LINE (7,90)-(799,90),3: LINE (7,79)-( 7,90),3: LIN
E (799,79)-(799,90),3
2090 INPUT #1,B$:LOCATE 9,2:COLOR 2,1:PRINT " CIRUJANO " :LOCATE 9,14,8:PRINT B$
2100 LINE (7,99)-(799,99),3: LINE (7,110)-(799,110),3: LINE (7,99)-( 7,110),3
: LINE (799,99)-(799,110),3
2110 INPUT #1,B$:LOCATE 11,2:COLOR 2,1:PRINT " AYUDANTE " :LOCATE 11,14,8:PRINT B
$#
2120 LINE (7,119)-(799,119),3: LINE (7,130)-(799,130),3: LINE (7,119)-( 7,130
),3: LINE (799,119)-(799,130),3
2130 INPUT #1,B$:LOCATE 13,2:COLOR 2,1:PRINT " PRIMERA INTERVENCION ANTIGLAUCOMA
TOSA " :LOCATE 13,4,3,8:PRINT B$#
2140 LINE (7,139)-(799,139),3: LINE (7,150)-(799,150),3: LINE (7,139)-( 7,150
),3: LINE (799,139)-(799,150),3
2150 INPUT #1,B$:LOCATE 15,2:COLOR 2,1:PRINT " TRATAMIENTO PREOPERATORIO " :LOCAT
E 15,31,8:PRINT B$#
2160 LOCATE 17,2:COLOR 2,1:PRINT " ANESTESIA "
2170 INPUT #1,B$#
2180 IF B$="1" THEN LOCATE 17,16,8:PRINT " LOCAL (1)" : GOTO 2200
2190 IF B$="2" THEN LOCATE 17,29,8:PRINT " GENERAL (2)" : GOTO 2200
2200 GOSUB 4650
2210 ' 2 CUADRO
2220 GOSUB 3710
2230 LOCATE 3,2:COLOR 2,1:PRINT " COLGAJO CONJUNTIVAL "
2240 INPUT #1,B$#

```

```

2250 IF B$="1" THEN LOCATE 3,25,0:PRINT " SUPERIOR(1) " : GOTO 2280
2260 IF B$="2" THEN LOCATE 3,39,0:PRINT " INFERIOR(2) " : GOTO 2280
2270 GOTO 400
2280 LOCATE 5,2:COLOR 2,1:PRINT " SANGRA "
2290 INPUT #1,B$
2300 IF B$="1" THEN LOCATE 5,12,0:PRINT " MUCHO(1) " : GOTO 2320
2310 IF B$="2" THEN LOCATE 5,23,0:PRINT " POCO(2) " : GOTO 2320
2320 LOCATE 7,2:COLOR 2,1:PRINT " SE CAUTERIZAN VASOS "
2330 INPUT #1,B$
2340 IF B$="1" THEN LOCATE 7,25,0:PRINT " SI(1) " : GOTO 2360
2350 IF B$="2" THEN LOCATE 7,33,0:PRINT " NO(2) " : GOTO 2360
2360 LOCATE 9,2:COLOR 2,1:PRINT " PERFORACION DEL COLGAJO "
2370 INPUT #1,B$
2380 IF B$="1" THEN LOCATE 9,29,0:PRINT " SI(1) " : GOTO 2400
2390 IF B$="2" THEN LOCATE 9,37,0:PRINT " NO(2) " : GOTO 2400
2400 LOCATE 11,2:COLOR 2,1:PRINT " COMPLICACIONES "
2410 INPUT #1,B$:LINE (7,99)-(799,99),3: LINE (7,110)-(799,110),3: LINE (7,99)-(7,110),3: LINE (799,99)-(799,110),3:LOCATE 11,20,8:PRINT B$
2420 GOSUB 4650
2430 ,3 CUADRO
2440 GOSUB 3850
2450 LOCATE 3,2,0:COLOR 2,1:PRINT " COLGAJO ESCLERAL "
2460 INPUT #1,B$
2470 IF B$="1" THEN LOCATE 3,22:PRINT " SUPERIOR(1) " : GOTO 2510
2480 IF B$="2" THEN LOCATE 3,36:PRINT " INFERIOR(2) " : GOTO 2510
2490 IF B$="3" THEN LOCATE 3,50:PRINT " NASAL(3) " : GOTO 2510
2500 IF B$="4" THEN LOCATE 3,61:PRINT " TEMPORAL(4) " : GOTO 2510
2510 INPUT #1,B$:LOCATE 5,2:COLOR 2,1:PRINT " TAMANO " :LINE (7,39)-(799,39),3:
LINE (7,50)-(799,50),3: LINE (7,39)-(7,50),3: LINE (799,39)-(799,50),3:LOCATE
5,12,8:PRINT B$
2520 LOCATE 7,2,0:COLOR 2,1:PRINT " DISECCION "
2530 INPUT #1,B$
2540 IF B$="1" THEN LOCATE 7,14:PRINT " FACIL(1) " : GOTO 2560
2550 IF B$="2" THEN LOCATE 7,26:PRINT " DIFICIL(2) " : GOTO 2560
2560 LOCATE 9,2:COLOR 2,1:PRINT " NATURALEZA DE LA ESCLERA "
2570 INPUT #1,B$
2580 IF B$="1" THEN LOCATE 9,30,0:PRINT " NORMAL(1) " : GOTO 2600
2590 IF B$="2" THEN LOCATE 9,42,0:PRINT " FRIABLE(2) " : GOTO 2600
2600 LOCATE 11,2,0:COLOR 2,1:PRINT " GROSOR DEL COLGAJO "
2610 INPUT #1,B$

```

```

2620 IF B$="1" THEN LOCATE 11,24:PRINT " DELGADO(1) " : GOTO 2660
2630 IF B$="2" THEN LOCATE 11,37:PRINT " MEDIANO(2) " : GOTO 2660
2640 IF B$="3" THEN LOCATE 11,50:PRINT " GRUESO(3) " : GOTO 2660
2650 IF B$="4" THEN LOCATE 11,62:PRINT " IRREGULAR(4) " : GOTO 2660
2660 LOCATE 13,2:COLOR 2,1:PRINT " ROTURA DEL COLGAJO "
2670 INPUT #1,B$
2680 IF B$="1" THEN LOCATE 13,24:PRINT " SI(1) " : GOTO 2700
2690 IF B$="2" THEN LOCATE 13,32:PRINT " NO(2) " : GOTO 2700
2700 LOCATE 15,2:COLOR 2,1:PRINT " DISECCION DE LA ESCLEERA CON: "
2710 INPUT #1,B$
2720 IF B$="1" THEN LOCATE 15,34:PRINT " CUCHILLA(1) " : GOTO 2740
2730 IF B$="2" THEN LOCATE 15,48:PRINT " ESCARIFICADOR(2) " : GOTO 2740
2740 INPUT #1,B$:LOCATE 17,2:COLOR 2,1:PRINT " COMPLICACIONES " : LINE (7,159)-(79
9,159),3: LINE (7,170)-(799,170),3: LINE (7,159)-(7,170),3: LINE (799,159)-(79
9,170),3 :LOCATE 17,20,8:PRINT B$
2750 GOSUB 4650: ' 4 CUADRO
2760 GOSUB 4050
2770 INPUT #1,B$:LOCATE 3,2:COLOR 2,1:PRINT " TAMAÑO " :LINE (7,19)-(799,19),3: L
INE (7,30)-(799,30),3: LINE (7,19)-(7,30),3: LINE (799,19)-(799,30),3 :LOCATE
3,12,8:PRINT B$
2780 LOCATE 5,2:COLOR 2,1,0:PRINT " IRIDECTOMIA PREVIA "
2790 INPUT #1,B$
2800 IF B$="1" THEN LOCATE 5,24:PRINT " SI(1) " : GOTO 2820
2810 IF B$="2" THEN LOCATE 5,32:PRINT " NO(2) " : GOTO 2820
2820 LOCATE 7,2:COLOR 2,1:PRINT " PARACENTESIS "
2830 INPUT #1,B$
2840 IF B$="1" THEN LOCATE 7,18:PRINT " SI(1) " : GOTO 2860
2850 IF B$="2" THEN LOCATE 7,26:PRINT " NO(2) " : GOTO 2860
2860 LOCATE 9,2:COLOR 2,1:PRINT " SE HERNIA EL IRIS O CUERPO CILIAR "
2870 INPUT #1,B$
2880 IF B$="1" THEN LOCATE 9,39:PRINT " SI(1) " : GOTO 2900
2890 IF B$="2" THEN LOCATE 9,47:PRINT " NO(2) " : GOTO 2900
2900 LOCATE 11,2:COLOR 2,1:PRINT " SE CUATERIZA EL LECHO ESCLERAL "
2910 INPUT #1,B$
2920 IF B$="1" THEN LOCATE 11,36:PRINT " SI(1) " : GOTO 2940
2930 IF B$="2" THEN LOCATE 11,44:PRINT " NO(2) " : GOTO 2940
2940 LOCATE 13,2:COLOR 2,1:PRINT " IRIDECTOMIA "
2950 INPUT #1,B$
2960 IF B$="1" THEN LOCATE 13,17:PRINT " GRANDE(1) " : GOTO 2990
2970 IF B$="2" THEN LOCATE 13,29:PRINT " MEDIANA(2) " : GOTO 2990

```

```

2980 IF B$="3" THEN LOCATE 13,42:PRINT " REDUCIDA(3) " : GOTO 2990
2990 LOCATE 15,2:COLOR 2,1:PRINT " IRIDECTOMIA BASAL "
3000 INPUT #1,B$
3010 IF B$="1" THEN LOCATE 15,23:PRINT " SI(1) " : GOTO 3030
3020 IF B$="2" THEN LOCATE 15,31:PRINT " NO(2) " : GOTO 3030
3030 LOCATE 17,2:COLOR 2,1:PRINT " SE VE EL CANAL DE SCHLEMM "
3040 INPUT #1,B$
3050 IF B$="1" THEN LOCATE 17,31:PRINT " SI(1) " : GOTO 3070
3060 IF B$="2" THEN LOCATE 17,39:PRINT " NO(2) " : GOTO 3070
3070 INPUT #1,B$:LOCATE 19,2:COLOR 2,1:PRINT " COMPLICACIONES " :LINE (7,179)-(79
9,179),3: LINE (7,190)-(799,190),3: LINE (7,179)-(79
9,190),3:LOCATE 19,20,8:PRINT B$
3080 GOSUB 4650:' 5 CUADRO
3090 GOSUB 4270
3100 INPUT #1,B$:LOCATE 3,2,0:COLOR 2,1:PRINT " TIPO DE SUTURA DEL COLGAJO ESCLE
RAL " :LINE (7,19)-(799,19),3: LINE (7,30)-(799,30),3: LINE (7,19)-(7,30),3: LI
NE (799,19)-(799,30),3:LOCATE 3,41,8:PRINT B$
3110 INPUT #1,B$:LOCATE 5,2,0:COLOR 2,1:PRINT " NUMERO DE PUNTOS " :LINE (7,39)-(7
799,39),3: LINE (7,50)-(799,50),3: LINE (7,39)-(7,50),3: LINE (799,39)-(799,50
),3:LOCATE 5,22,8:PRINT B$
3120 INPUT #1,B$:LOCATE 7,2,0:COLOR 2,1:PRINT " TIPO DE SUTURA DEL COLGAJO CONJU
NTIVAL " :LINE (7,59)-(799,59),3: LINE (7,70)-(799,70),3: LINE (7,59)-(7,70),3:
LINE (799,59)-(799,70),3:LOCATE 7,44,8:PRINT B$
3130 INPUT #1,B$:LOCATE 9,2,0:COLOR 2,1:PRINT " NUMERO DE PUNTOS " :LINE (7,79)-(7
799,79),3: LINE (7,90)-(799,90),3: LINE (7,79)-(7,90),3: LINE (799,79)-(799,90
),3:LOCATE 9,22,8:PRINT B$
3140 LOCATE 11+C,2,0:COLOR 2,1:PRINT " COMPLICACION " :LINE (7,99+B)-(799,99+B),3
: LINE (7,110+B)-(799,110+B),3: LINE (7,99+B)-(7,110+B),3: LINE (799,99+B)-(79
9,110+B),3:LOCATE 11+C,20,8:INPUT #1,B$:PRINT B$
3150 INPUT #1,B$
3160 IF B$="S" OR B$="s" THEN C=C+2:B=B+20: GOTO 3140
3170 IF B$="N" OR B$="n" THEN GOTO 3180
3180 GOSUB 4650:' 6 CUADRO
3190 GOSUB 4410
3200 LOCATE 3,2:COLOR 2,1:PRINT " PUPILA "
3210 INPUT #1,B$
3220 IF B$="1" THEN LOCATE 3,12:PRINT " CENTRADA(1) " : GOTO 3240
3230 IF B$="2" THEN LOCATE 3,26:PRINT " DESPLAZADA(2) " : GOTO 3240
3240 LOCATE 5,2:COLOR 2,1:PRINT " CAMARA ANTERIOR "
3250 INPUT #1,B$

```

```

3260 IF B$="1" THEN LOCATE 5,21:PRINT " PROFUNDA(1) " : GOTO 3290
3270 IF B$="2" THEN LOCATE 5,35:PRINT " MEDIA(2) " : GOTO 3290
3280 IF B$="3" THEN LOCATE 5,46:PRINT " PLANA(3) " : GOTO 3290
3290 LOCATE 7,2:COLOR 2,1:PRINT " SE REFORMA "
3300 INPUT #1,B$
3310 IF B$="1" THEN LOCATE 7,16:PRINT " SI(1) " : GOTO 3330
3320 IF B$="2" THEN LOCATE 7,24:PRINT " NO(2) " : GOTO 3370
3330 LOCATE 7,32:COLOR 2,0:PRINT " AIRE(1) SUERO(2) " :LINE (7,59)-(409,59),3:
LINE (7,70)-(409,70),3: LINE (7,70)-(7,70),3: LINE (409,59)-(409,70),3:COLOR 2
'1
3340 INPUT #1,B$
3350 IF B$="1" THEN LOCATE 7,32:PRINT " AIRE(1) " : GOTO 3330
3360 IF B$="2" THEN LOCATE 7,42:PRINT " SUERO(2) " : GOTO 3370
3370 LOCATE 9,2:COLOR 2,1:PRINT " ANAT. PATOLOGICA "
3380 INPUT #1,B$
3390 IF B$="1" THEN LOCATE 9,22:PRINT " SI(1) " : GOTO 3410
3400 IF B$="2" THEN LOCATE 9,30:PRINT " NO(2) " : GOTO 3410
3410 LOCATE 11,2:COLOR 2,0:PRINT " TRATAMIENTO POST. SI(1) NO(2) "
3420 LOCATE 11,2:COLOR 2,1:PRINT " TRATAMIENTO POST. " :LINE (7,99)-(288,99),3: LI
NE (7,110)-(288,110),3: LINE (7,99)-(7,110),3: LINE (288,99)-(288,110),3
3430 INPUT #1,B$
3440 IF B$="1" THEN LOCATE 11,22:PRINT " SI(1) " : GOTO 3460
3450 IF B$="2" THEN LOCATE 11,30:PRINT " NO(2) " : CLOSE:GOSUB 4650:GOSUB 4530
3460 LOCATE 13+R,2:COLOR 2,0:PRINT " - " :LINE (7,119+F)-(799,119+F),3: LINE (7,
130+F)-(799,130+F),3: LINE (7,119+F)-(7,130+F),3: LINE (799,119+F)-(799,130+F)
'3
3470 INPUT #1,B$:LOCATE 13+R,5,8:PRINT B$
3480 INPUT #1,B$
3490 IF B$="S" OR B$="s" THEN R=R+2:F=F+20:GOTO 6935
3500 IF B$="N" OR B$="n" THEN CLOSE:GOSUB 4650:GOSUB 4530
3510 , 1 CUADRO
3520 COLOR 2,0:CLS
3530 LOCATE 1,2,0:COLOR 1,3:PRINT " C I R U G I A "
3540 LOCATE 3,2:COLOR 2,0:PRINT " TIPO DE INTERVENCION "
3550 LOCATE 5,2:COLOR 2,0:PRINT " FECHA DE INTERVENCION "
3560 LOCATE 7,2:COLOR 2,0:PRINT " OJO INTERVENIDO O.D. (1) O.I. (2) "
3570 LOCATE 9,2:COLOR 2,0:PRINT " CIRUJANO "
3580 LOCATE 11,2:COLOR 2,0:PRINT " AYUDANTE "
3590 LOCATE 13,2:COLOR 2,0:PRINT " PRIMERA INTERVENCION ANTIGLAUCOMATOSA "
3600 LOCATE 15,2:COLOR 2,0:PRINT " TRATAMIENTO PREOPERATORIO "

```

```

3610 LOCATE 17,2:COLOR 2,0:PRINT " ANESTESIA LOCAL "(1) GENERAL "(2)"
3620 LINE (7,19)-(185,19),3: LINE (7,30)-(185,30),3: LINE (7,19)-(7,30),3: LIN
E (185,19)-(185,30),3
3630 LINE (7,39)-(192,39),3: LINE (7,50)-(192,50),3: LINE (7,39)-(7,50),3: LIN
E (192,39)-(192,50),3
3640 LINE (7,59)-(313,59),3: LINE (7,70)-(313,70),3: LINE (7,59)-(7,70),3: LIN
E (313,59)-(313,70),3
3650 LINE (7,79)-(89,79),3: LINE (7,90)-(89,90),3: LINE (7,79)-(7,90),3: LIN
E (89,79)-(89,90),3
3660 LINE (7,99)-(89,99),3: LINE (7,110)-(89,110),3: LINE (7,99)-(7,110),3:
LINE (89,99)-(89,110),3
3670 LINE (7,119)-(320,119),3: LINE (7,130)-(320,130),3: LINE (7,119)-(7,130),
3: LINE (320,119)-(320,130),3
3680 LINE (7,139)-(225,139),3: LINE (7,150)-(225,150),3: LINE (7,139)-(7,150),
3: LINE (225,139)-(225,150),3
3690 LINE (7,159)-(328,159),3: LINE (7,170)-(328,170),3: LINE (7,159)-(7,170),
3: LINE (328,159)-(328,170),3
3700 RETURN
3710 ,2 CUADRO
3720 COLOR 2,0:CLS
3730 LOCATE 1,2:COLOR 1,3:PRINT " COLOGAJO CONJUNTIVAL "
3740 LOCATE 3,2:COLOR 2,0:PRINT " COGAJO SUPERIOR(1) INFERIOR(1)
2)"
3750 LOCATE 5,2:COLOR 2,0:PRINT " SANGRA MUCHO(1) POCO(2) "
3760 LOCATE 7,2:COLOR 2,0:PRINT " SE CAUTERIZAN VASOS SI(1) NO(2) "
3770 LOCATE 9,2:COLOR 2,0:PRINT " PERFORACION DEL COLGAJO SI(1) NO(2) "
3780 LOCATE 11,2:COLOR 2,0:PRINT " COMPLICACIONES "
3790 LINE (7,19)-(409,19),3: LINE (7,30)-(409,30),3: LINE (7,19)-(7,30),3: LIN
E (409,19)-(409,30),3
3800 LINE (7,39)-(249,39),3: LINE (7,50)-(249,50),3: LINE (7,39)-(7,50),3: LIN
E (249,39)-(249,50),3
3810 LINE (7,59)-(313,59),3: LINE (7,70)-(313,70),3: LINE (7,59)-(7,70),3: LIN
E (313,59)-(313,70),3
3820 LINE (7,79)-(345,79),3: LINE (7,90)-(345,90),3: LINE (7,79)-(7,90),3: LIN
E (345,79)-(345,90),3
3830 LINE (7,99)-(137,99),3: LINE (7,110)-(137,110),3: LINE (7,99)-(7,110),3:
LINE (137,99)-(137,110),3
3840 RETURN
3850 ,3 CUADRO
3860 COLOR 2,0:CLS

```

```

3870 LOCATE 1,2,0:COLOR 1,3:PRINT " C O L G A J O   E S C L E R A L "
3880 LOCATE 3,2,COLOR 2,0:PRINT " COLGAJO ESCLERAL   SUPERIOR(1)   INFERIOR(2)
NASAL(3) TEMPORAL(4) "
3890 LOCATE 5,2:COLOR 2,0:PRINT " TAMANO "
3900 LOCATE 7,2:COLOR 2,0:PRINT " DISECCION   FACIL(1)   DIFICIL(2) "
3910 LOCATE 9,2:COLOR 2,0:PRINT " NATURALEZA DE LA ESCLERA   NORMAL(1)   FRIABL
E(2) "
3920 LOCATE 11,2:COLOR 2,0:PRINT " GROSOR DEL COLGAJO   DELGADO(1)   MEDIANO(2)
GRUESO(3)  IRREGULAR(4) "
3930 LOCATE 13,2:COLOR 2,0:PRINT " ROTURA DEL COLGAJO   SI(1)   NO(2) "
3940 LOCATE 15,2:COLOR 2,0:PRINT " DISECCION DE LA ESCLERA CON:   CUCHILLA(1)
ESCARIFICADOR(2) "
3950 LOCATE 17,2:COLOR 2,0:PRINT " COMPLICACIONES "
3960 LINE (7,19)-(584,19),3: LINE (7,30)-(584,30),3: LINE (7,19)-( 7,30),3: LIN
E (584,19)-(584,30),3
3970 LINE (7,39)-(73,39),3: LINE (7,50)-( 73,50),3: LINE (7,39)-( 7,50),3: LIN
E ( 73,39)-( 73,50),3
3980 LINE (7,59)-(297,59),3: LINE (7,70)-(297,70),3: LINE (7,59)-( 7,70),3: LIN
E (297,59)-(297,70),3
3990 LINE (7,79)-(424,79),3: LINE (7,90)-(424,90),3: LINE (7,79)-( 7,90),3: LIN
E (424,79)-(424,90),3
4000 LINE (7,99)-(600,99),3: LINE (7,110)-(600,110),3: LINE (7,99)-( 7,110),3:
LINE (600,99)-(600,110),3
4010 LINE (7,119)-(305,119),3: LINE (7,130)-(305,130),3: LINE (7,119)-( 7,130),
3: LINE (305,119)-(305,130),3
4020 LINE (7,139)-(520,139),3: LINE (7,150)-(520,150),3: LINE (7,139)-( 7,150),
3: LINE (520,139)-(520,150),3
4030 LINE (7,159)-(136,159),3: LINE (7,170)-(136,170),3: LINE (7,159)-( 7,170),
3: LINE (136,159)-(136,170),3
4040 RETURN
4050 ' 4 CUADRO
4060 COLOR 2,0:CLS
4070 LOCATE 1,2,0:COLOR 1,3:PRINT " S E C C I O N   D E L   T E J I D O   E S C
L E R O   C O R N E A L "
4080 LOCATE 3,2:COLOR 2,0:PRINT " TAMANO "
4090 LOCATE 5,2:COLOR 2,0:PRINT " IRIDECTOMIA PREVIA   SI(1)   NO(2) "
4100 LOCATE 7,2:COLOR 2,0:PRINT " PARACENTESIS   SI(1)   NO(2) "
4110 LOCATE 9,2:COLOR 2,0:PRINT " SE HERNIA EL IRIS O CUERPO CILIAR   SI(1)   N
O(2) "
4120 LOCATE 11,2:COLOR 2,0:PRINT " SE CUATERIZA EL LECHO ESCLERAL   SI(1)   NO(

```

```

2) " LOCATE 13,2:COLOR 2,0:PRINT " IRIDECTOMIA
IDA(3) " GRANDE(1) MEDIANA(2) REDUC
4130 LOCATE 15,2:COLOR 2,0:PRINT " IRIDECTOMIA BASAL SI(1) NO(2)
4140 LOCATE 17,2:COLOR 2,0:PRINT " SE VE EL CANAL DE SCHLEMM SI(1) NO(2)
4150 LOCATE 19,2:COLOR 2,0:PRINT " COMPLICACIONES "
4160 LOCATE 7,19)-(73,19),3: LINE (7,30)-(73,30),3: LINE (7,19)-(7,30),3: LIN
4170 LINE (7,19)-(73,30),3: LINE (7,50)-(304,50),3: LINE (7,39)-(7,50),3: LIN
E (73,19)-(73,30),3
4180 LINE (7,39)-(304,39),3: LINE (7,50)-(304,50),3: LINE (7,39)-(7,50),3: LIN
E (304,39)-(304,50),3
4190 LINE (7,59)-(257,59),3: LINE (7,70)-(257,70),3: LINE (7,59)-(7,70),3: LIN
E (257,59)-(257,70),3
4200 LINE (7,79)-(424,79),3: LINE (7,90)-(424,90),3: LINE (7,79)-(7,90),3: LIN
E (424,79)-(424,90),3
4210 LINE (7,99)-(400,99),3: LINE (7,110)-(400,110),3: LINE (7,99)-(7,110),3:
LINE (400,99)-(400,110),3
4220 LINE (7,119)-(432,119),3: LINE (7,130)-(432,130),3: LINE (7,119)-(7,130),
3: LINE (432,119)-(432,130),3: LINE (7,139)-(296,139),3: LINE (7,150)-(296,150),3: LINE (7,139)-(7,150),
4230 LINE (7,139)-(296,139),3: LINE (7,150)-(296,150),3: LINE (7,139)-(7,150),
3: LINE (296,139)-(296,150),3
4240 LINE (7,159)-(361,159),3: LINE (7,170)-(361,170),3: LINE (7,159)-(7,170),
3: LINE (361,159)-(361,170),3
4250 LINE (7,179)-(137,179),3: LINE (7,190)-(137,190),3: LINE (7,179)-(7,190),
3: LINE (137,179)-(137,190),3
4260 RETURN
4270 , 5 CUADRO
4280 COLOR 2,0:CLS
4290 LOCATE 1,2,0:COLOR 1,3:PRINT " SUTURAS Y COMPLICACION
E S O P E R A T O R I A S "
4300 LOCATE 3,2:COLOR 2,0:PRINT " TIPO DE SUTURA DEL COLGAJO ESCLERAL "
4310 LOCATE 5,2:COLOR 2,0:PRINT " NUMERO DE PUNTOS "
4320 LOCATE 7,2:COLOR 2,0:PRINT " TIPO DE SUTURA DEL COLGAJO CONJUNTIVAL "
4330 LOCATE 9,2:COLOR 2,0:PRINT " NUMERO DE PUNTOS "
4340 LOCATE 11,2:COLOR 2,0:PRINT " COMPLICACION "
4350 LINE (7,19)-(304,19),3: LINE (7,30)-(304,30),3: LINE (7,19)-(7,30),3: LIN
E (304,19)-(304,30),3
4360 LINE (7,39)-(152,39),3: LINE (7,50)-(152,50),3: LINE (7,39)-(7,50),3: LIN
E (152,39)-(152,50),3
4370 LINE (7,59)-(328,59),3: LINE (7,70)-(328,70),3: LINE (7,59)-(7,70),3: LIN
E (328,59)-(328,70),3

```

```

4380 LINE (7,79)-(152,79),3: LINE (7,90)-(152,90),3: LINE (7,79)-( 7,90),3: LIN
E (152,79)-(152,90),3
4390 LINE (7,99)-(136,99),3: LINE (7,110)-(136,110),3: LINE (7,99)-( 7,110),3:
LINE (136,99)-(136,110),3
4400 RETURN
4410 , 6 CUADRO
4420 COLOR 2,0:CLS
4430 LOCATE 1,2,0:COLOR 1,3:PRINT " F I N A L D E L A I N T E R V E N C I
O N Y T R A T A M I E N T O "
4440 LOCATE 3,2:COLOR 2,0:PRINT " PUPILA CENTRADA(1) DESPLAZADA(2) "
4450 LOCATE 5,2:COLOR 2,0:PRINT " CAMARA ANTERIOR PROFUNDA(1) MEDIA(2) PL
ANA(3) "
4460 LOCATE 7,2:COLOR 2,0:PRINT " SE REFORMA SI(1) NO(2) "
4470 LOCATE 9,2:COLOR 2,0:PRINT " ANAT. PATOLOGICA SI(1) NO(2) "
4480 LINE (7,19)-(320,19),3: LINE (7,30)-(320,30),3: LINE (7,19)-( 7,30),3: LIN
E (320,19)-(320,30),3
4490 LINE (7,39)-(440,39),3: LINE (7,50)-(440,50),3: LINE (7,39)-( 7,50),3: LIN
E (440,39)-(440,50),3
4500 LINE (7,59)-(241,59),3: LINE (7,70)-(241,70),3: LINE (7,59)-( 7,70),3: LIN
E (241,59)-(241,70),3
4510 LINE (7,79)-(288,79),3: LINE (7,90)-(288,90),3: LINE (7,79)-( 7,90),3: LIN
E (288,79)-(288,90),3
4520 RETURN
4530 CLOSE
4540 IF ACS=999 THEN GOTO 4810
4550 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
4560 COLOR 0,3:CLS:CLOSE
4570 LOCATE 4,15,0:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A "
4580 LOCATE 7,20:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
4590 LOCATE 9,20:COLOR 1,3:PRINT " 2 - VOLVER AL MENU"
4600 A$=INKEY$
4610 IF A$="1" THEN CHAIN "B:V.V.BAS"
4620 IF A$="2" THEN CHAIN "B:MENU.BAS",400
4630 GOTO 4600
4640 , PULSE RETURN
4650 LOCATE 24,40,0:COLOR 2,1:PRINT " PULSE RETURN "
4660 A$=INKEY$
4670 IF A$=CHR$(13) THEN GOTO 4690
4680 GOTO 4660

```

```
4690 LOCATE 24,40,0:COLOR 2,0:PRINT "          " :RETURN
4700 , TIEMPO
4710 FOR TP=1 TO 100:NEXT
4720 RETURN
4730 COLOR 0,3:CLS
4740 LOCATE 1,1,0 :COLOR 3,1:PRINT " C I R U G I A "
4750 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A "
4760 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS "
4770 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS "
4780 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL "
4790 RETURN
4800 L=LEN(NU$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"CIR":OPEN "O",#1,COD$:GOTO 130
4810 COMMON ACS,NUM$:CHAIN "B:VVV.BAS"
```

```

10 IF ACS=111 THEN NU$=DOD$ :COND$=NU$+"DOS":OPEN "I",#1,COD$:GOTO 1000
20 SCREEN 3:COLOR 2,0:GOSUB 2320
30 A$=INKEY$
40 IF A$="1" THEN GOTO 80
50 IF A$="2" THEN GOTO 960
60 IF A$="3" THEN CHAIN "B:MENU.BAS",400
70 GOTO 30
80 COLOR 3,1:CLS:LOCATE 10,17:INPUT "INTRODUCIR EL NUMERO DE REFERENCIA (LUEGO P
ULSE RETURN) :" ,NUM$
90 IF ACS=999 THEN GOTO 2390
100 COD$=NUM$+"DOS":OPEN "O",#1,COD$
110 COLOR 2,0:CLS
120 GOSUB 1720
130 LOCATE 3,2,0:COLOR 2,1:PRINT " OJO AFECTADO " :LINE( 7, 19)-(180, 19),3: LI
NE( 7, 30)-(180, 30),3: LINE( 7, 19)-( 7, 30),3: LINE(180, 19)-(180, 30),3 :L
OCATE 3,18,8:COLOR 3,0:INPUT "",B$: WRITE #1,B$:OJO$=B$
140 LOCATE 5,2,0:COLOR 2,1:PRINT " DOLOR "
150 B$=INKEY$
160 IF B$="1" THEN LOCATE 5,11:PRINT " AUSENTE(1) " :WRITE #1,B$:GOTO 290
170 IF B$="2" THEN LOCATE 5,24:PRINT " LIGERO(2) " :WRITE #1,B$:GOTO 210
180 IF B$="3" THEN LOCATE 5,36:PRINT " MODERADO(3) " :WRITE #1,B$:GOTO 210
190 IF B$="4" THEN LOCATE 5,50:PRINT " INTENSO(4) " :WRITE #1,B$:GOTO 210
200 GOTO 150
210 LOCATE 7,2,0:PRINT " IRRADIACION DEL DOLOR " :LINE( 7, 59)-(799, 59),3: LINE
( 7, 70)-(799, 70),3: LINE( 7, 59)-( 7, 70),3: LINE(799, 59)-(799, 70),3:LOCA
TE 7,27,8:INPUT "",B$:WRITE #1,B$
220 LOCATE 9,2,0:PRINT " DURACION DEL DOLOR " :LINE( 7, 79)-(799, 79),3: LINE(
7, 90)-(799, 90),3: LINE( 7, 79)-( 7, 90),3: LINE(799, 79)-(799, 90),3 :LOCATE
9,24,8:INPUT "",B$: WRITE #1,B$
230 LOCATE 11,2,0:PRINT " CEDE CON ANALGESICOS "
240 B$=INKEY$
250 IF B$="1" THEN LOCATE 11,26:PRINT " SI(1) " :WRITE #1,B$:GOTO 280
260 IF B$="2" THEN LOCATE 11,34:PRINT " NO(2) " :WRITE #1,B$:GOTO 280
270 GOTO 240
280 LOCATE 13,2,0:PRINT " TIPO DE ANALGESICO UTILIZADO " :LINE( 7,119)-(799, 119)

```

```

' 3: LINE( 7,130)-(799,130),3: LINE( 7,119)-( 7,130),3: LINE(799,119)-(799,130
'),3:LOCATE 13,34,8:INPUT "",B$:WRITE #1,B$:GOTO 340
290 LOCATE 17,2,0:PRINT " SENSIBILIDAD A LA PRESION "
300 B$=INKEY$
340 LOCATE 15,2,0:PRINT " OTRO DATO DEL DOLOR "
350 B$=INKEY$
360 IF B$=="1" THEN LOCATE 17,31:PRINT " SI(1) ":"WRITE #1,B$:GOTO 400
370 IF B$=="2" THEN LOCATE 17,39:PRINT " NO(2) ":"WRITE #1,B$:GOTO 400
380 GOTO 350
390 LINE( 7,139)-(799,139),3: LINE( 7,150)-(799,150),3: LINE( 7,139)-( 7,150
),3: LINE(799,139)-(799,150),3:LOCATE 15,25:COLOR 2,0:PRINT "
) ;COLOR 2,1:LOCATE 15,25,8:INPUT "",B$:WRITE #1,B$:GOTO 290
400 GOSUB 1920
410 LOCATE 3,2,0:COLOR 2,1:PRINT " OJO AFECTADO " :LINE( 7, 19)-(180, 19),3: LI
NE( 7, 30)-(180, 30),3: LINE( 7, 19)-( 7, 30),3: LINE(180, 19)-(180, 30),3 :L
OCATE 3,18,0:COLOR 3,0:PRINT OJO$
420 LOCATE 5,2,0:COLOR 2,1:PRINT " VISION IRISADA "
430 B$=INKEY$
440 IF B$=="1" THEN LOCATE 5,20:PRINT " SI(1) ":"WRITE #1,B$:GOTO 470
450 IF B$=="2" THEN LOCATE 5,28:PRINT " NO(2) ":"WRITE #1,B$:GOTO 470
460 GOTO 430
470 LOCATE 7,2,0:PRINT " VISION NIEBLA "
480 B$=INKEY$
490 IF B$=="1" THEN LOCATE 7,19:PRINT " SI(1) ":"WRITE #1,B$:GOTO 520
500 IF B$=="2" THEN LOCATE 7,27:PRINT " NO(2) ":"WRITE #1,B$:GOTO 520
510 GOTO 480
520 LOCATE 9,2,0:PRINT " SECRECION "
530 B$=INKEY$
540 IF B$=="1" THEN LOCATE 9,15:PRINT " ACUOSA(1) ":"WRITE #1,B$:GOTO 590
550 IF B$=="2" THEN LOCATE 9,27:PRINT " MUCOSA(2) ":"WRITE #1,B$:GOTO 590
560 IF B$=="3" THEN LOCATE 9,39:PRINT " MUCOPURULENTA(3) ":"WRITE #1,B$:GOTO 590
570 IF B$=="4" THEN LOCATE 9,58:PRINT " NADA(4) ":"WRITE #1,B$:GOTO 590
580 GOTO 530
590 LOCATE 11,2,0:PRINT " MANIF. INESPECIFICAS "
600 B$=INKEY$
610 IF B$=="1" THEN LOCATE 11,26:PRINT " PICOR/ESCOZOR/ARENILLA(1) ":"WRITE #1,B$:
GOTO 640
620 IF B$=="2" THEN LOCATE 11,54:PRINT " NADA(2) ":"WRITE #1,B$:GOTO 640

```

```

630 GOTO 600
640 LOCATE 13,2,0:PRINT " FORMA DE PRESENTACION "
650 B$=INKEY$
660 IF B$="1" THEN LOCATE 13,27:PRINT " AGUDA(1) ":"WRITE #1,B$:GOTO 690
670 IF B$="2" THEN LOCATE 13,38:PRINT " SOLAPADA(2) ":"WRITE #1,B$:GOTO 690
680 GOTO 650
690 GOTO 750
700 LOCATE 17,2,0:PRINT " DISMINUCION AGUDEZA VISUAL PERIFERICA "
710 B$=INKEY$
720 IF B$="1" THEN LOCATE 17,43:PRINT " SI(1) ":"WRITE #1,B$:GOTO 810
730 IF B$="2" THEN LOCATE 17,51:PRINT " NO(2) ":"WRITE #1,B$:GOTO 810
740 GOTO 710
750 LOCATE 15,2,0:PRINT " DISMINUCION AGUDEZA VISUAL CENTRAL "
760 B$=INKEY$
770 IF B$="1" THEN LOCATE 15,41:PRINT " SI(1) ":"WRITE #1,B$:GOTO 800
780 IF B$="2" THEN LOCATE 15,49:PRINT " NO(2) ":"WRITE #1,B$:GOTO 800
790 GOTO 760
800 GOTO 700
810 LOCATE 19,2,0:PRINT " OTROS "
820 B$=INKEY$
830 IF B$="1" THEN LOCATE 19,11:PRINT " SI(1) ":"WRITE #1,B$:GOTO 860
840 IF B$="2" THEN LOCATE 19,19:PRINT " NO(2) ":"WRITE #1,B$:GOTO 870
850 GOTO 810
860 LOCATE 19,11:COLOR 2,0:PRINT "
) ,3: LINE( 7,190)-(799,190),3: LINE( 7,179)-( 7,190),3: LINE( 799,179
0),3 :COLOR 2,1:LOCATE 19,11,8:INPUT "",B$:WRITE #1,B$
870 SUMA=SUMA+1:IF SUMA=2 THEN GOTO 930
880 LOCATE 24,28,0:COLOR 3,1:PRINT " QUIERE INTRODUCIR DATOS DEL OTRO OJO (S/N)
"
890 B$=INKEY$
900 IF B$="S" OR B$="s" THEN LOCATE 24,28,0:WRITE #1,B$:COLOR 2,0:PRINT "
" :GOTO 120
910 IF B$="N" OR B$="n" THEN WRITE #1,B$:GOTO 930
920 GOTO 890
930 CLOSE
940 IF ACS=999 THEN GOTO 2400
950 GOSUB 2140
960 LEER
970 COLOR 1,3:CLS:LOCATE 10,17:INPUT " INTRODUCIR EL NUMERO DE REFERENCIA (LUEGO
PULSE RETURN) : ",NUM$
```

```

980 COD$=NUM$+"DOS"
990 OPEN "I",#1,COD$
1000 COLOR 2,0:CLS
1010 GOSUB 1720
1020 LOCATE 3,2,0:COLOR 2,1:PRINT " OJO AFECTADO " :LINE( 7, 19)-(180, 19),3: L
INE( 7, 30)-(180, 30),3: LINE( 7, 19)-( 7, 30),3: LINE(180, 19)-(180, 30),3 :
LOCATE 3,18,8:COLOR 3,0:INPUT #1,B$:PRINT B$:OJO$=B$
1030 LOCATE 5,2,0:COLOR 2,1:PRINT " DOLOR "
1040 INPUT #1,B$:
1050 IF B$="1" THEN LOCATE 5,11:PRINT " AUSENTES(1) " : GOTO 1160
1060 IF B$="2" THEN LOCATE 5,24:PRINT " LIGERO(2) " : GOTO 1090
1070 IF B$="3" THEN LOCATE 5,36:PRINT " MODERADO(3) " :GOTO 1090
1080 IF B$="4" THEN LOCATE 5,50:PRINT " INTENSO(4) " : GOTO 1090
1090 LOCATE 7,2,0:PRINT " IRRADIACION DEL DOLOR " :LINE( 7, 59)-(799, 59),3: LIN
E( 7, 70)-(799, 70),3: LINE( 7, 59)-( 7, 70),3: LINE(799, 59)-(799, 70),3:LOC
ATE 7,27,8:INPUT #1,B$:PRINT B$:
1100 LOCATE 9,2,0:PRINT " DURACION DEL DOLOR " :LINE( 7, 79)-(799, 79),3: LINE(
7, 90)-(799, 90),3: LINE( 7, 79)-( 7, 90),3: LINE(799, 79)-(799, 90),3 :LOCAT
E 9,24,8:INPUT #1,B$:PRINT B$:
1110 LOCATE 11,2,0:PRINT " CEDE CON ANALGÉSICOS "
1120 INPUT #1,B$:
1130 IF B$="1" THEN LOCATE 11,26:PRINT " SI(1) " : GOTO 1150
1140 IF B$="2" THEN LOCATE 11,34:PRINT " NO(2) " : GOTO 1150
1150 LOCATE 13,2,0:PRINT " TIPO DE ANALGÉSICO UTILIZADO " :LINE( 7,119)-(799,119
),3: LINE( 7,130)-(799,130),3: LINE( 7,119)-( 7,130),3: LINE(799,119)-(799,13
0),3:LOCATE 13,34,8:INPUT #1,B$:PRINT B$:GOTO 1200
1160 LOCATE 17,2,0:PRINT " SENSIBILIDAD A LA PRESION "
1170 INPUT #1,B$:
1180 IF B$="1" THEN LOCATE 17,31:PRINT " SI(1) " : GOTO 1250
1190 IF B$="2" THEN LOCATE 17,39:PRINT " NO(2) " : GOTO 1250
1200 LOCATE 15,2,0:PRINT " OTRO DATO DEL DOLOR "
1210 INPUT #1,B$:
1220 IF B$="1" THEN LOCATE 15,25:PRINT " SI(1) " : GOTO 1240
1230 IF B$="2" THEN LOCATE 15,33:PRINT " NO(2) " : GOTO 1160
1240 LINE( 7,139)-(799,139),3: LINE( 7,150)-(799,150),3: LINE( 7,139)-( 7,15
0),3: LINE(799,139)-(799,150),3 :LOCATE 15,25:COLOR 2,0:PRINT "
":COLOR 2,1:LOCATE 15,25,8:INPUT #1,B$:PRINT B$:GOTO 1160
1250 GOSUB 2240:GOSUB 1920
1260 LOCATE 3,2,0:COLOR 2,1:PRINT " OJO AFECTADO " :LINE( 7, 19)-(180, 19),3: L
INE( 7, 30)-(180, 30),3: LINE( 7, 19)-( 7, 30),3: LINE(180, 19)-(180, 30),3 :

```

```

LOCATE 3,18,0:COLOR 3,0:PRINT OJO$ VISION IRISADA "
1270 LOCATE 5,2,0:COLOR 2,1:PRINT " VISION IRISADA "
1280 INPUT #1,B$
1290 IF B$="1" THEN LOCATE 5,20:PRINT " SI(1) " : GOTO 1310
1300 IF B$="2" THEN LOCATE 5,28:PRINT " NO(2) " : GOTO 1310
1310 LOCATE 7,2,0:PRINT " VISION NIEBLA "
1320 INPUT #1,B$
1330 IF B$="1" THEN LOCATE 7,19:PRINT " SI(1) " : GOTO 1350
1340 IF B$="2" THEN LOCATE 7,27:PRINT " NO(2) " : GOTO 1350
1350 LOCATE 9,2,0:PRINT " SECRECION "
1360 INPUT #1,B$
1370 IF B$="1" THEN LOCATE 9,15:PRINT " ACUOSA(1) " : GOTO 1410
1380 IF B$="2" THEN LOCATE 9,27:PRINT " MUCOSA(2) " : GOTO 1410
1390 IF B$="3" THEN LOCATE 9,39:PRINT " MUCOPURULENTA(3) " : GOTO 1410
1400 IF B$="4" THEN LOCATE 9,58:PRINT " NADA(4) " : GOTO 1410
1410 LOCATE 11,2,0:PRINT " MANIF. INESPECIFICAS "
1420 INPUT #1,B$
1430 IF B$="1" THEN LOCATE 11,26:PRINT " PICOR/ESCOZOR/ARENILLA(1) " : GOTO 1450
1440 IF B$="2" THEN LOCATE 11,54:PRINT " NADA(2) " : GOTO 1450
1450 LOCATE 13,2,0:PRINT " FORMA DE PRESENTACION "
1460 INPUT #1,B$
1470 IF B$="1" THEN LOCATE 13,27:PRINT " AGUDA(1) " : GOTO 1490
1480 IF B$="2" THEN LOCATE 13,38:PRINT " SOLAPADA(2) " : GOTO 1490
1490 GOTO 1540
1500 LOCATE 17,2,0:PRINT " DISMINUNCION AGUDEZA VISUAL PERIFERICA "
1510 INPUT #1,B$
1520 IF B$="1" THEN LOCATE 17,43:PRINT " SI(1) " : GOTO 1590
1530 IF B$="2" THEN LOCATE 17,51:PRINT " NO(2) " : GOTO 1590
1540 LOCATE 15,2,0:PRINT " DISMINUNCION AGUDEZA VISUAL CENTRAL "
1550 INPUT #1,B$
1560 IF B$="1" THEN LOCATE 15,41:PRINT " SI(1) " : GOTO 1580
1570 IF B$="2" THEN LOCATE 15,49:PRINT " NO(2) " : GOTO 1580
1580 GOTO 1500
1590 LOCATE 19,2,0:PRINT " OTROS "
1600 INPUT #1,B$
1610 IF B$="1" THEN LOCATE 19,11:PRINT " SI(1) " : GOTO 1630
1620 IF B$="2" THEN LOCATE 19,19:PRINT " NO(2) " : GOTO 1640
1630 LOCATE 19,11:COLOR 2,0:PRINT " LINE( 7,179)-( 799,1/
9),3: LINE( 7,190)-( 799,190),3: LINE( 7,179)-( 7,190),3: LINE( 799,179)-( 799,1
90),3: COLOR 2,1:LOCATE 19,11,8:INPUT #1,B$:PRINT B$
1640 SUMA=SUMA+1:IF SUMA=2 THEN GOTO 1680

```

```

1650 INPUT #1,B$      NO(2)
1660 IF B$="S" OR B$="s" THEN GOSUB 2240:GOTO 1010
1670 IF B$="N" OR B$="n" THEN GOTO 1680      NO(2)
1680 CLOSE
1690 GOSUB 2240
1700 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
1710 GOSUB 2140
1720 , 1 CUADRO
1730 COLOR 2,0:CLS:COLOR 1,3:PRINT " DATOS OFTALMOLÓGICOS "
1740 COLOR 2,0
1750 LOCATE 5,2,0:PRINT " DOLOR AUSENTE(1) LIGERO(2) MODERADO(3) INTENS
O(4)
1760 LOCATE 3,2,0:PRINT " OJO AFECTADO "
1770 LOCATE 7,2,0:PRINT " IRRADIACION DEL DOLOR "
1780 LOCATE 9,2,0:PRINT " DURACION DEL DOLOR "
1790 LOCATE 11,2,0:PRINT " CEDE CON ANALGESICOS SI(1) NO(2) "
1800 LOCATE 13,2,0:PRINT " TIPO DE ANALGESICO UTILIZADO "
1810 LOCATE 17,2,0:PRINT " SENSIBILIDAD A LA PRESION SI(1) NO(2) "
1820 LOCATE 15,2,0:PRINT " OTRO DATO DEL DOLOR SI(1) NO(2) "
1830 LINE( 7, 19)-(120, 19),3: LINE( 7, 30)-(120, 30),3: LINE( 7, 19)-( 7, 3
0),3: LINE(120, 19)-(120, 30),3
1840 LINE( 7, 39)-(488, 39),3: LINE( 7, 50)-(488, 50),3: LINE( 7, 39)-( 7, 5
0),3: LINE(488, 39)-(488, 50),3
1850 LINE( 7, 59)-(192, 59),3: LINE( 7, 70)-(192, 70),3: LINE( 7, 59)-( 7, 7
0),3: LINE(192, 59)-(192, 70),3
1860 LINE( 7, 79)-(168, 79),3: LINE( 7, 90)-(168, 90),3: LINE( 7, 79)-( 7, 9
0),3: LINE(168, 79)-(168, 90),3
1870 LINE( 7, 99)-(320, 99),3: LINE( 7,110)-(320,110),3: LINE( 7, 99)-( 7,11
0),3: LINE(320, 99)-(320,110),3
1880 LINE( 7,119)-(248,119),3: LINE( 7,130)-(248,130),3: LINE( 7,119)-( 7,13
0),3: LINE(248,119)-(248,130),3
1890 LINE( 7,139)-(312,139),3: LINE( 7,150)-(312,150),3: LINE( 7,139)-( 7,15
0),3: LINE(312,139)-(312,150),3
1900 LINE( 7,159)-(360,159),3: LINE( 7,170)-(360,170),3: LINE( 7,159)-( 7,15
9),3: LINE(360,159)-(360,170),3
1910 RETURN
1920 , 2 CUADRO
1930 COLOR 2,0:CLS :COLOR 1,3:PRINT " DATOS OFTALMOLÓGICOS
S U B J E T I V O S (CONT)

```

```

1940 COLOR 2,0
1950 LOCATE 5,2,0:PRINT " VISION IRISADA      SI(1)    NO(2) "
1960 LOCATE 3,2,0:PRINT " OJO AFECTADO   SI(1)    NO(2) "
1970 LOCATE 7,2,0:PRINT " VISION NIEBLA    SI(1)    NO(2) "
1980 LOCATE 9,2,0:PRINT " SECRECION     MUCOSA(2)  MUCOPURULENTA(3)
NADA(4) "
1990 LOCATE 11,2,0:PRINT " MANIF. INESPECIFICAS PICOR/ESCOZOR/ARENILLA(1)  N
ADA(2) "
2000 LOCATE 13,2,0:PRINT " FORMA DE PRESENTACION AGUDA(1)  SOLAPADA(2) "
2010 LOCATE 17,2,0:PRINT " DISMINUNCION AGUDEZA VISUAL PERIFERICA SI(1)    NO(2
)
" "
2020 LOCATE 15,2,0:PRINT " DISMINUNCION AGUDEZA VISUAL CENTRAL    SI(1)    NO(2)
"
2030 LOCATE 19,2,0:PRINT " OTROS          SI(1)    NO(2) "
2040 LINE( 7,159)-(456,159),3: LINE( 7,170)-(456,170),3: LINE(
0),3: LINE(456,159)-(456,170),3
2050 LINE( 7,19)-(120,19),3: LINE( 7,30)-(120,30),3: LINE(
0),3: LINE(120,19)-(120,30),3
2060 LINE( 7,39)-(272,39),3: LINE( 7,50)-(272,50),3: LINE(
0),3: LINE(272,39)-(272,50),3
2070 LINE( 7,59)-(264,59),3: LINE( 7,70)-(264,70),3: LINE(
0),3: LINE(264,59)-(264,70),3
2080 LINE( 7,79)-(528,79),3: LINE( 7,90)-(528,90),3: LINE(
0),3: LINE(528,79)-(528,90),3
2090 LINE( 7,99)-(496,99),3: LINE( 7,110)-(496,110),3: LINE(
0),3: LINE(496,99)-(496,110),3
2100 LINE( 7,119)-(400,119),3: LINE( 7,130)-(400,130),3: LINE(
0),3: LINE(400,119)-(400,130),3
2110 LINE( 7,139)-(440,139),3: LINE( 7,150)-(440,150),3: LINE(
0),3: LINE(440,139)-(440,150),3
2120 LINE( 7,179)-(208,179),3: LINE( 7,190)-(208,190),3: LINE(
0),3: LINE(208,179)-(208,190),3
2130 RETURN
2140 ' CAMBIO PROGRAMA
2150 COLOR 0,3:CLS
2160 LOCATE 4,15,0:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A "
2170 LOCATE 7,20:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
2180 LOCATE 9,20:COLOR 1,3:PRINT " 2 - VOLVER AL MENU"
2190 A$=INKEY$
2200 IF A$="1" THEN CHAIN "B:EEE.BAS"
2210 IF A$="2" THEN CHAIN "B:MENU.BAS",400

```

```

2220 GOTO 2190
2230 , PULSE RETURN
2240 LOCATE 24,40,0:COLOR 2,1:PRINT " PULSE RETURN "
2250 A$=INKEY$
2260 IF A$=CHR$(13) THEN GOTO 2280
2270 GOTO 2250
2280 LOCATE 24,40,0:COLOR 2,0:PRINT " "
2290 , TIEMPO
2300 FOR TP=1 TO 100:NEXT
2310 RETURN
2320 COLOR 0,3:CLS
2330 LOCATE 1,1,0 :COLOR 3,1:PRINT " DATOS OFTALMOLÓGICOS "
S U B J E T I V O S "
2340 LOCATE 4,15:COLOR 0,3:PRINT " PULSELACION ELEGIDA "
A "
2350 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS "
2360 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS "
2370 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL "
2380 RETURN
2390 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"DOS":OPEN "O",#1,COD$:GOTO 110
2400 COMMON ACS,NUM$:CHAIN "B:EEE.BAS",1434

```

```

10 'DIB.PRIMER MENU
20 SCREEN 3:COLOR 2,0:CLS
30 LOCATE 2,36:COLOR 1,3:PRINT "OPCIONES":COLOR 2,0
40 LOCATE 6,19:COLOR 3,0:PRINT "1 - FICHEROS NOMBRES Y CONS
U L T A D E DATOS"
50 LOCATE 8,19:PRINT "2 - HISTORIA CLINICA"
60 LOCATE 10,19:PRINT "3 - DATOS AYUDA DIA G. DIFERENCIA
L"
70 LOCATE 12,19:PRINT "4 - DATOS AYUDA TERAPEUTICA"
80 LOCATE 14,19:PRINT "5 -"
90 LOCATE 16,19:PRINT "6 -"
100 LOCATE 18,19:PRINT "7 - BIBLIOGRAFIA"
110 LOCATE 20,19:PRINT "8 - TERRIMINAR LA SESSION"
120 LOCATE 24,39:COLOR 0,1:PRINT "PULSE LA OPCION LEGIDA"
""

130 A$=INKEY$
140 IF A$="1" THEN GOTO 1000
150 IF A$="2" THEN GOTO 210
160 IF A$="3" THEN CHAIN "B:SIND.BAS"
170 IF A$="4" THEN CHAIN "B:XXX.BAS"
180 IF A$="7" THEN CHAIN "B:BIBLIO.BAS"
190 IF A$="8" THEN SYSTEM
200 GOTO 130
210 ' MENU HISTORIA CLINICA NUEVA
220 COLOR 2,0:CLS
230 SCREEN 3:COLOR 2,0:CLS
240 LOCATE 1,1:COLOR 1,3:PRINT "HISTORIA CLINICA"
250 LOCATE 4,10:COLOR 3,0:PRINT "1 - DATOS DEMOGRAFICOS"
260 LOCATE 6,10:COLOR 3,0:PRINT "2 - INTERRORIO PERSONAL"
270 LOCATE 8,10:COLOR 3,0:PRINT "3 - DATOS OFTALMOLOGICOS"
J E T I V O S"
280 LOCATE 10,10:COLOR 3,0:PRINT "4 - ANTecedentes personales
E S Y FAMILIARES"
290 LOCATE 12,10:COLOR 3,0:PRINT "5 - REFERACCIÓN"
300 LOCATE 14,10:COLOR 3,0:PRINT "6 - BIOMICROSCOPIA O.D."

```

```

310 LOCATE 16,10:COLOR 3,0:PRINT "7 - BIOMICROSCOPIA DE LA PAP"
320 LOCATE 18,10:COLOR 3,0:PRINT "8 - EXPLORACION DE LA PAP"
I L A"
330 LOCATE 20,10:COLOR 3,0:PRINT "9 - SENOCAMERULAR Y GONO
I S C O P I A"
340 LOCATE 22,10:COLOR 3,0:PRINT "0 - MASOPCIONES"
350 LOCATE 24,39:COLOR 0,1:PRINT "PULSE LA OPCION ELEGIDA"
"

360 A$=INKEY$
370 IF A$="1" THEN CHAIN "B:AAA.BAS"
380 IF A$="2" THEN CHAIN "B:DDD.BAS"
390 IF A$="3" THEN CHAIN "B:BBB.BAS"
400 IF A$="4" THEN CHAIN "B:EEE.BAS"
410 IF A$="5" THEN CHAIN "B:GGG.BAS"
420 IF A$="6" THEN CHAIN "B:IIIID.BAS"
430 IF A$="7" THEN CHAIN "B:IIII.BAS"
440 IF A$="8" THEN CHAIN "B:JJJ.BAS"
450 IF A$="9" THEN CHAIN "B:PPP.BAS"
460 IF A$="0" THEN GOTO 480
470 GOTO 360
480 SCREEN 3:COLOR 2,0:CLS
490 LOCATE 1,1:COLOR 1,3:PRINT "HISTORIA CLINICA (cont)"
500 LOCATE 4,10:COLOR 3,0:PRINT "1 - T. I. O.", TONOGRAFIA Y
O F T A L M O D I N A M O M E T R I A"
510 LOCATE 6,10:COLOR 3,0:PRINT "2 - CAMPO VISUAL OJO DERECHO"
H O"
520 LOCATE 8,10:COLOR 3,0:PRINT "3 - CAMPO VISUAL OJO IZQUIERDO"
I E R D O"
530 LOCATE 10,10:COLOR 3,0:PRINT "4 - TRATAMIENTO"
540 LOCATE 12,10:COLOR 3,0:PRINT "5 - LASER"
550 LOCATE 14,10:COLOR 3,0:PRINT "6 - CIRUGIA"
560 LOCATE 16,10:COLOR 3,0:PRINT "7 - POSTOPERATORIO"
570 LOCATE 18,10:COLOR 3,0:PRINT "8 - CONSULTA SIGUIENTE"
L T A"
580 LOCATE 20,10:COLOR 3,0:PRINT "9 - VOLVER AL MENU PRINCIPAL"
590 LOCATE 22,10:COLOR 3,0:PRINT "0 - VOLVER A LA OPCION ELEGIDA"
600 LOCATE 24,39:COLOR 0,1:PRINT "PULSE LA OPCION ELEGIDA"
"

```

```

610 A$=INKEY$
620 IF A$="1" THEN CHAIN "B:000.BAS"
630 IF A$="2" THEN CHAIN "B:000.BAS"
640 IF A$="3" THEN CHAIN "B:001.BAS"
650 IF A$="4" THEN CHAIN "B:002.BAS"
660 IF A$="5" THEN CHAIN "B:003.BAS"
670 IF A$="8" THEN CHAIN "B:004.BAS"
680 IF A$="6" THEN CHAIN "B:005.BAS"
690 IF A$="7" THEN CHAIN "B:006.BAS"
700 IF A$="9" THEN GOTO 230
710 IF A$="0" THEN GOTO 10
720 GOTO 610
730 GOSUB 2600
740 A$=INKEY$
750 IF A$="1" THEN GOTO 790
760 IF A$="2" THEN GOTO 960: 'LEER A PARTIR DEL FICHERO NUMERO 2 (EL PRIMERO ES U
N CONTADOR)
770 IF A$="3" THEN CLOSE:GOTO 10
780 GOTO 740
790 GOSUB 2320
800 OPEN "R",#2,"FICHA",77
810 FIELD #2,4 AS IND$,15 AS NOM$,20 AS APE1$,20 AS APE2$,4 AS REF$,10 AS FECH$,
4 AS DISS$
820 GET 2,1
830 AA$=IND$:AA=VAL(AA$)
840 AA=AA+1:LSET IND$=STR$(AA)
850 LOCATE 5+S,2,8:INPUT "",NOMBRE$:LSET NOM$=NOMBRE$
860 LOCATE 5+S,21,8:INPUT "",APEL1$:LSET APEL1$=APEL1$
870 LOCATE 5+S,45,8:INPUT "",APEL2$:LSET APEL2$=APEL2$
880 LOCATE 5+S,68,0:PRINT AA:LSET REF$=STR$(AA)
890 LOCATE 5+S,76,0:PRINT DATE$:LSET FECH$=DATE$
900 LOCATE 5+S,91,8:INPUT "",DISC$:LSET DIS$=DISC$
910 PUT 2,AA
920 PUT 2,1
930 NUM$=STR$(AA):ACS=999
940 CLOSE #2
950 COMMON NUM$,ACS,NOMBRE$,APEL1$,APEL2$:CHAIN "B:AAA.BAS",710
960 SCREEN 3: ' LEER
970 COLOR 1,3:CLS
980 LOCATE 1,1,0:COLOR 3,1:PRINT " OPCIONES DE CONSULTA D E

```

```

F I C H E R O S " :COLOR 1,3
990 LOCATE 9,25,0:PRINT " 1 - CONSULTAR UN ENFERMO POR NOMBRE"
1000 LOCATE 11,25,0:PRINT " 2 - CONSULTAR UN ENFERMO POR FECHA"
1010 LOCATE 13,25,0:PRINT " 3 - CONSULTAR UN ENFERMO POR PRIMER APELLIDO "
1020 LOCATE 15,25,0:PRINT " 4 - CONSULTAR UN LISTADO DE ENFERMOS DE UN DISCO"
1030 LOCATE 17,25,0:PRINT " 5 - VOLVER AL MENU DE FICHEROS
1040 LOCATE 19,25,0:PRINT " 6 - VOLVER AL MENU PRINCIPAL
1050 A$=INKEY$
1060 IF A$="1" THEN GOTO 1130
1070 IF A$="2" THEN GOTO 1290
1080 IF A$="3" THEN GOTO 1430
1090 IF A$="4" THEN GOTO 1570
1100 IF A$="5" THEN GOTO 1000
1110 IF A$="6" THEN GOTO 10
1120 GOTO 1050
1130 CLS:LOCATE 10,5,8:INPUT " NOMBRE DE PILA (COMO EN D.N.I. ) :" ,N$:L(1)=LEN(N$)
1140 LOCATE 12,5,8:INPUT " PRIMER APELLIDO (COMO EN D.N.I. ) :" ,P$:L(2)=LEN(P$)
1150 LOCATE 14,5,8:INPUT " SEGUNDO APELLIDO (COMO EN D.N.I. ) :" ,Q$:L(3)=LEN(Q$)
1160 COLOR 2,0:CLS:GOSUB 2320
1170 OPEN "R",'#1,"FICHA",'77
1180 FIELD #1,4 AS IND$,15 AS NOM$,20 AS APE1$,20 AS APE2$,4 AS REF$,10 AS FECH$
'4 AS DISS$
1190 GET 1,1:F=VAL(IND$)
1200 S=0
1210 FOR I=1 TO F
1220 GET 1,I:N$=LEFT$(NOM$,L(1)):APEL1$=LEFT$(APE1$,L(2)):APEL2$=LEFT$(APE2$,L(
3))
1230 IF N$=NO$ AND P$=APEL1$ AND Q$=APEL2$ THEN LOCATE 5+S,2,0:PRINT NOM$:LOCATE
5+S,21:PRINT APE1$:LOCATE 5+S,45:PRINT APE2$:LOCATE 5+S,68:PRINT REF$:LOCATE 5+
S,76:PRINT FECH$:LOCATE 5+S,91:S=S+2
1240 IF S>16 THEN GOSUB 2670:GOSUB 2320:S=0
1250 NEXT
1260 IF S=0 THEN GOSUB 2770:CLOSE:GOTO 10
1270 GOSUB 2670
1280 CLOSE:GOTO 10
1290 CLS:LOCATE 10,5,8:INPUT " FECHA ( 00-00-0000 ) :" ,F$:L=LEN(F$)
1300 COLOR 2,0:CLS:GOSUB 2320
1310 OPEN "R",'#1,"FICHA",'77
1320 FIELD #1,4 AS IND$,15 AS NOM$,20 AS APE1$,20 AS APE2$,4 AS REF$,10 AS FECH$,
4 AS DISS$

```

```

1330 GET 1,1 :F=VAL(IND$)
1340 S=0
1350 FOR II=1 TO F
1360 GET 1,II:FE$=LEFT$(FECH$,L)
1370 IF F$=FE$ THEN LOCATE 5+S,2,0:PRINT NOM$:LOCATE 5+S,21:PRINT APE1$:LOCATE 5
+S,45:PRINT APE2$:LOCATE 5+S,68:PRINT REF$:LOCATE 5+S,76:PRINT FECH$:LOCATE 5+S,
91:PRINT DIS$:S=S+2
1380 IF S>16 THEN GOSUB 2670:GOSUB 2320:S=0
1390 NEXT II
1400 IF S=0 THEN GOSUB 2770:CLOSE:GOTO 10
1410 GOSUB 2670
1420 CLOSE:GOTO 10
1430 CLS:LOCATE 10,5,8:INPUT " PRIMER APELLIDO : ",AP$:L=LEN(AP$)
1440 COLOR 2,0:CLS:GOSUB 2320
1450 OPEN "R",#1,"FICHA",77
1460 FIELD #1,4 AS IND$,15 AS NOM$,20 AS APE1$,20 AS APE2$,4 AS REF$,10 AS FECH$
4 AS DIS$
1470 GET 1,1:F=VAL(IND$)
1480 S=0
1490 FOR I=1 TO F
1500 GET 1,I:APEL1$=LEFT$(APE1$,L)
1510 GET 1,I:IF AP$=APEL1$ THEN LOCATE 5+S,2,0:PRINT NOM$:LOCATE 5+S,21:PRINT AP
E1$:LOCATE 5+S,45:PRINT APE2$:LOCATE 5+S,68:PRINT REF$:LOCATE 5+S,76:PRINT FECH$
:LOCATE 5+S,91:PRINT DIS$:S=S+2
1520 IF S>16 THEN GOSUB 2670:GOSUB 2320:S=0
1530 NEXT
1540 IF S=0 THEN GOSUB 2770:CLOSE:GOTO 10
1550 GOSUB 2670
1560 CLOSE:GOTO 10
1570 GOSUB 2320
1580 OPEN "R",#1,"FICHA",77
1590 FIELD #1,4 AS IND$,15 AS NOM$,20 AS APE1$,20 AS APE2$,4 AS REF$,10 AS FECH$
4 AS DIS$
1600 GET 1,1:F=VAL(IND$)
1610 S=0
1620 FOR II=1 TO F
1630 GET 1,II:LOCATE 5+S,2,0:PRINT NOM$:LOCATE 5+S,21:PRINT APE1$:LOCATE 5+S,45:
PRINT APE2$:LOCATE 5+S,68:PRINT REF$:LOCATE 5+S,76:PRINT FECH$:LOCATE 5+S,91:PRI
NT DIS$:
1640 S=S+2

```

```

1650 IF S>16 THEN GOSUB 2670:GOSUB 2320:S=0
1660 NEXT
1670 IF S=0 THEN GOSUB 2770:CLOSE:GOTO 10
1680 GOSUB 2670
1690 CLOSE:GOTO 10
1700 SCREEN 3:COLOR 2,0:CLS
1710 LOCATE 1,1:COLOR 1,3:PRINT " H I S T O R I A C L I N I C A "
1720 LOCATE 4,10:COLOR 3,0:PRINT " 1 - D A T O S D E M O G R A F I C O S "
1730 LOCATE 6,10:COLOR 3,0:PRINT " 2 - I N T E R R O G A T O R I O P R E V I O "
1740 LOCATE 8,10:COLOR 3,0:PRINT " 3 - D A T O S O F T A L M O G I C O S S U
B J E T I V O S"
1750 LOCATE 10,10:COLOR 3,0:PRINT " 4 - A N T E C E D E N T E S P E R S O N A L
E S Y F A M I L I A R E S"
1760 LOCATE 12,10:COLOR 3,0:PRINT " 5 - R E F R A C C I O N "
1770 LOCATE 14,10:COLOR 3,0:PRINT " 6 - B I O M I C R O S C O P I A O . D . "
1780 LOCATE 16,10:COLOR 3,0:PRINT " 7 - B I O M I C R O S C O P I A O . I . "
1790 LOCATE 18,10:COLOR 3,0:PRINT " 8 - E X P L O R A C I O N D E L A P A P
I L A"
1800 LOCATE 20,10:COLOR 3,0:PRINT " 9 - S E N O C A M E R U L A R Y G O N
O I S C O P I A "
1810 LOCATE 22,10:COLOR 3,0:PRINT " 0 - M A S O P C I O N E S "
1820 LOCATE 24,39:COLOR 0,1:PRINT " P U L S E L A O P C I O N E L E G I D
A"
1830 A$=INKEY$
1840 IF A$="1" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:AAA.BAS",1710
1850 IF A$="2" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:DDD.BAS"
1860 IF A$="3" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:BBB.BAS"
1870 IF A$="4" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:EEE.BAS"
1880 IF A$="5" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:GGG.BAS"
1890 IF A$="6" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:IIIID.BAS"
1900 IF A$="7" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:IIII.BAS"
1910 IF A$="8" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:JJJ.BAS"
1920 IF A$="9" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:PPP.BAS"
1930 IF A$="0" THEN GOTO 1950
1940 GOTO 1830
1950 SCREEN 3:COLOR 2,0:CLS
1960 LOCATE 1,1:COLOR 1,3:PRINT " H I S T O R I A C L I N I C A (cont) "
1970 LOCATE 4,10:COLOR 3,0:PRINT " 1 - T . I . O . , T O N O G R A F I A Y
O F T A L M O D I N A M O M E T R I A "

```

```

1980 LOCATE 6,10:COLOR 3,0:PRINT "2 - CAMPО VISUAL OJO DERE
C H O"
1990 LOCATE 8,10:COLOR 3,0:PRINT "3 - CAMPО VISUAL OJO IZQU
I E R D 0"
2000 LOCATE 10,10:COLOR 3,0:PRINT "4 - TRATAMIENTO"
2010 LOCATE 12,10:COLOR 3,0:PRINT "5 - LASER"
2020 LOCATE 14,10:COLOR 3,0:PRINT "6 - CIRUGIA"
2030 LOCATE 16,10:COLOR 3,0:PRINT "7 - POSTOPERATORIO"
2040 LOCATE 18,10:COLOR 3,0:PRINT "8 - NOTAS SISTEMAS CONSU
L T A"
2050 LOCATE 20,10:COLOR 3,0:PRINT "9 - VOLVER AL PAGINA AN
T E R I O R"
2060 LOCATE 22,10:COLOR 3,0:PRINT "0 - VOLVER AL MENU PRINCI
P A L"
2070 LOCATE 24,39:COLOR 0,1:PRINT "PULSE LA OPCION ELEGIDA"
A"
2080 A$=INKEY$
2090 IF A$="1" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:000.BAS"
2100 IF A$="2" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:000.BAS"
2110 IF A$="3" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:001.BAS"
2120 IF A$="4" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:002.BAS"
2130 IF A$="5" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:003.BAS"
2140 IF A$="8" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:004.BAS"
2150 IF A$="6" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:005.BAS"
2160 IF A$="7" THEN ACS=111:COMMON DDD$,ACS:CHAIN "B:006.BAS"
2170 IF A$="9" THEN GOTO 1700
2180 IF A$="0" THEN GOTO 10
2190 GOTO 2080
2200 OPEN "R",#1,"FICHA",77
2210 FIELD #1,4 AS IND$,15 AS NOM$,20 AS APE1$,4 AS REF$,10 AS FECH$
4 AS DIS$'
2220 INPUT "INDICE : ",A$:LSET IND$=A$
2230 INPUT "NOMBRE DE PILA : ",NOMBRE$:LSET NOM$=NOMBRE$
2240 INPUT "PRIMER APELLIDO : ",APEL1$:LSET APE1$=APEL1$
2250 INPUT "SEGUNDO APELLIDO : ",APEL2$:LSET APE2$=APEL2$
2260 PRINT A$:LSET REF$=A$
2270 PRINT DATE$:LSET FECH$=DATE$
2280 INPUT "DISCO : ",DISC$:LSET DIS$=DISC$
2290 PUT #1,1
2300 CLOSE #1

```

```

2310 END
2320 SCREEN 3:COLOR 2,0:CLS
2330 COLOR 2,0:CLS
2340 LOCATE 3,1:COLOR 1,0:PRINT " N O M B R E " 1 APELLIDO
2 APPELLIDO
2350 LOCATE 1,2:COLOR 1,3:PRINT " F I C H E R O " :COLOR 2,0
N. REF.
2360 FOR I=19 TO 199 STEP 20:LINE(0,I)-(799,I),1:NEXT
2370 FOR I=30 TO 210 STEP 20:LINE(0,I)-(799,I),1:NEXT
2380 LINE(0,19)-(0,210),1:LINE(799,19)-(799,210),1
2390 LINE(591,19)-(591,210),1:LINE(695,19)-(695,210),1
2400 LINE(339,19)-(339,210),1:LINE(147,19)-(147,210),1
2410 RETURN
2420 ' CAMBIO PROGRAMA
2430 COLOR 0,3:CLS
2440 LOCATE 4,15,0:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A"
2450 LOCATE 7,20:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
2460 LOCATE 9,20:COLOR 1,3:PRINT " 2 - VOLVER AL MENU"
2470 A$=INKEY$
2480 IF A$="1" THEN CHAIN "B:
2490 IF A$="2" THEN CHAIN "B:MENU.BAS"
2500 GOTO 2470
2510 , PULSE RETURN
2520 LOCATE 24,40,0:COLOR 2,1:PRINT " PULSE RETURN "
2530 A$=INKEY$
2540 IF A$=CHR$(13) THEN GOTO 2560
2550 GOTO 2530
2560 LOCATE 24,40,0:COLOR 2,0:PRINT " " :RETURN
2570 , TIEMPO
2580 FOR TP=1 TO 100:NEXT
2590 RETURN
2600 COLOR 0,3:CLS:CLOSE
2610 LOCATE 1,1,0 :COLOR 3,1:PRINT " F I C H E R O "
2620 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A"
2630 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS "
2640 LOCATE 9,20:COLOR 1,3:PRINT " 2 - CONSULTAR DATOS "
2650 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL "
2660 RETURN
2670 LOCATE 24,30,0:COLOR 3,1:PRINT " QUIERE CONSULTAR ALGUN DATO (S/N) "

```

```

2680 A$=INKEY$
2690 IF A$="S" OR D$="s" THEN CLOSE:GOTO 2720
2700 IF A$="N" OR D$="n" THEN RETURN
2710 GOTO 2680
2720 LOCATE 24,30,0:COLOR 2,0:PRINT "
2730 LOCATE 24,30,0:COLOR 1,3:INPUT " PULSE EL NUMERO DE REFERENCIA A CONSULTAR
" A$:
2740 IF A$<>" " THEN GOTO 2760
2750 GOTO 51070
2760 CLS:DDD$=A$:GOTO 48000
2770 LOCATE 24,30,0:COLOR 1,3:PRINT " NO CONSTA EN EL FICHERO (PULSE ESPACIO PAR
A SEGUIR) "
2780 ESP$=INKEY$
2790 IF ESP$=" " THEN LOCATE 24,30,0:COLOR 2,0:PRINT "
" :RETURN
2800 GOTO 2780

```

```

10 IF ACS=111 THEN NU$=DDD$:COD$=NU$+"REF":OPEN "I",#1,COD$:GOTO 560
20 'REFRACCION
30 COLOR 2,0:CLS:SCREEN 3
40 COLOR 1,3:CLS:LOCATE 1,1:COLOR 3,1:PRINT "REFRACCION"
50 LOCATE 4,15:COLOR 0,3:PRINT "PUENTEACION ELEGIDA"
"                                "
60 LOCATE 7,20:COLOR 1,3:PRINT "1 - INTRODUCIR DATOS"
70 LOCATE 9,20:COLOR 1,3:PRINT "2 - LEER DATOS"
80 LOCATE 11,20:COLOR 1,3:PRINT "3 - VOLVER MENU PRINCIPAL"
90 A$=INKEY$
100 IF A$="1" THEN GOTO 140
110 IF A$="2" THEN GOTO 500
120 IF A$="3" THEN CHAIN "B:MENU.BAS",400
130 GOTO 90
140 COLOR 3,1:CLS:LOCATE 10,17,8:COLOR 3,1:INPUT "INTRODUZCA EL NUMERO DE HISTO
РИАЛ (LUEGO PULSE RETURN) :" ,NUM$
150 LOCATE 24,38:COLOR 0,1:PRINT "INTRODUZA LOS DATOS (LUEGO PULSE RETURN) "
160 IF ACS=999 THEN GOTO 1630
170 A$="REF"
180 COD$=NUM$+A$
190 OPEN "O",#1,COD$
200 CLS
210 GOSUB 23200
220 B=37
230 FOR A=4 TO 14 STEP 2
240 LOCATE A,B,8:COLOR 2,0:INPUT "",B$
250 WRITE #1,B$
260 IF A=14 THEN GOTO 280
270 NEXT A
280 LOCATE 17,27:COLOR 2,0:INPUT "",B$
290 WRITE #1,B$
300 LOCATE 20,47,8:COLOR 2,0:INPUT "",B$
310 WRITE #1,B$
320 LOCATE 17,70,8:COLOR 2,0:INPUT "",B$
330 WRITE #1,B$

```

```

340 LOCATE 20,89,8:COLOR 2,0:INPUT "",B$
350 WRITE #1,B$
360 'CUADRO SEGUNDO DE REFRACCION
370 COLOR 2,0:CLS
380 GOSUB 234000
390 B=37
400 FOR A=4 TO 18 STEP 2
410 LOCATE A,B,8:COLOR 2,0:INPUT "",B$
420 WRITE #1,B$
430 IF A=18 THEN GOTO 450
440 NEXT A
450 LOCATE 24,34:COLOR 1,3:PRINT " ESPERE UN MOMENTO "
460 CLOSE #1
470 IF ACS=999 THEN GOTO 1640
480 GOSUB 209000
490 END
500 'LEER DATOS
510 COLOR 1,3:CLS:LOCATE 10,17,8:COLOR 1,3:INPUT " INTRODUZCA EL NUMERO DE HISTO
RIAL (LUEGO PULSE RETURN) : ",NUM$
520 CLS
530 A$="REF"
540 COD$=NUM$+A$
550 OPEN "I",#1,COD$
560 GOSUB 232000
570 B=37
580 FOR A=4 TO 14 STEP 2
590 INPUT #1,B$:LOCATE A,B :COLOR 2,0:PRINT B$
600 IF A=14 THEN GOTO 620
610 NEXT A
620 INPUT #1,B$:LOCATE 17,27:COLOR 2,0:PRINT B$
630 INPUT #1,B$:LOCATE 20,47 :COLOR 2,0:PRINT B$
640 INPUT #1,B$:LOCATE 17,70 :COLOR 2,0:PRINT B$
650 INPUT #1,B$:LOCATE 20,89 :COLOR 2,0:PRINT B$
660 LOCATE 24,38:COLOR 0,1:PRINT " PULSE RETURN "
670 A$=INKEY$
680 IF A$=CHR$(13) THEN GOTO 700
690 GOTO 670
700 'CUADRO SEGUNDO DE REFRACCION
710 COLOR 2,0:CLS
720 GOSUB 234000
730 B=37

```

```

390 'SEGUNDO DE BELEJCCION
390 MBLIE #1,B$ :LOCATE A,B :COLOR 2,0:PRINT B$
390 TCGUE 30,0,A$:COLOR 3,0:IMBLIE ,B$ :PRINT
740 FOR A=4 TO 18 STEP 2
750 INPUT #1,B$:LOCATE A,B :COLOR 2,0:PRINT B$
760 IF A=18 THEN GOTO 780
770 NEXT A
780 CLOSE #1
790 LOCATE 24,38:COLOR 0,1:PRINT " PULSE RETURN "
800 A$=INKEY$
810 IF A$=CHR$(13) THEN GOTO 830
820 GOTO 800
830 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
840 GOSUB 20900
850 END
860 ' SUBRUTINA PARA VOLVER AL MENU PRINCIPAL
870 SCREEN 3:COLOR 1,3:CLS
880 LOCATE 1,1:COLOR 3,1:PRINT " PULSE LA OPCION DESEADA "
880 LOCATE 7,21:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
890 LOCATE 11,21:COLOR 1,3:PRINT " 2 - VOLVER AL MENU PRINCIPAL "
900 LOCATE 11,21:COLOR 1,3:PRINT " "
910 A$=INKEY$
920 IF A$="1" THEN CHAIN "B:LIID.BAS"
930 IF A$="2" THEN CHAIN "B:MENU.BAS",400
940 GOTO 910
950 COLOR 2,0
960 RETURN
970 ' PRIMER CUADRO REFRACCION
980 COLOR 2,0:CLS:SCREEN 3
990 LOCATE 1,1:COLOR 1,3:PRINT " R E F R A C C I O N "
1000 LINE( 0, 23)-(799, 23),1
1010 LINE(230, 43)-(799, 43),1
1020 LINE( 0, 63)-(799, 63),1
1030 LINE(230, 83)-(799, 83),1
1040 LINE( 0,103)-(799,103),1
1050 LINE(230,123)-(799,123),1
1060 LINE( 0,143)-(799,143),1
1070 LINE( 0, 23)-( 0,210),1
1080 LINE(799, 23)-(799,210),1
1090 LINE(230, 23)-(230,143),1
1100 LINE(280, 23)-(280,143),1
1110 LINE(130,143)-(130,210),1
1120 LINE( 0,210)-(799,210),1
1130 LINE(464,143)-(464,210),1

```

```

1140 LINE ( 200,155)-(200,200),1
1150 LINE ( 200,200)-(400,200),1
1160 LINE ( 540,155)-(540,200),1
1170 LINE ( 540,200)-(740,200),1
1180 LOCATE 5,2:COLOR 3,0:PRINT "A. V. SIN CORRECCION"
1190 LOCATE 4,31:COLOR 3,0:PRINT "O.D."
1200 LOCATE 6,31:COLOR 3,0:PRINT "O.I."
1210 LOCATE 9,2:COLOR 3,0:PRINT "A. V. CON ESTENOPEICO"
1220 LOCATE 8,31:COLOR 3,0:PRINT "O.D."
1230 LOCATE 10,31:COLOR 3,0:PRINT "O.I."
1240 LOCATE 13,2:COLOR 3,0:PRINT "OFITALMOMETRIA"
1250 LOCATE 12,31:COLOR 3,0:PRINT "O.D."
1260 LOCATE 14,31:COLOR 3,0:PRINT "O.I."
1270 LOCATE 18,2:COLOR 3,0:PRINT "ESQUIASCOPIA"
1280 LOCATE 16,18:COLOR 3,0:PRINT "OD"
1290 LOCATE 16,61:COLOR 3,0:PRINT "OI"
1300 COLOR 2,0
1310 RETURN
1320 , SEGUNDO CUADRO REFRACCION
1330 COLOR 2,0:CLS:SCREEN 3
1340 LOCATE 1,1:COLOR 1,3:PRINT "REFRACION (CONT) "
1350 LINE( 0, 23)-(799, 23),1
1360 LINE(230, 43)-(799, 43),1
1370 LINE( 0, 63)-(799, 63),1
1380 LINE(230, 83)-(799, 83),1
1390 LINE( 0,103)-(799,103),1
1400 LINE(230,123)-(799,123),1
1410 LINE( 0,143)-(799,143),1
1420 LINE( 0, 23)-(-0,183),1
1430 LINE(799, 23)-(799,183),1
1440 LINE(230, 23)-(230,183),1
1450 LINE(230,163)-(799,163),1
1460 LINE( 0,183)-(799,183),1
1470 LINE( 0,183)-(799,183),1
1480 LINE(280,23)-(280,183),1
1490 LOCATE 5,2:COLOR 3,0:PRINT "CORRECCION QUE LLEVA"
1500 LOCATE 4,31:COLOR 3,0:PRINT "O.D."
1510 LOCATE 6,31:COLOR 3,0:PRINT "O.I."
1520 LOCATE 9,2:COLOR 3,0:PRINT "A. V. CON SUS GAFAS"
1530 LOCATE 8,31:COLOR 3,0:PRINT "O.D."

```

```
1540 LOCATE 10,31:COLOR 3,0:PRINT "O.I."
1550 LOCATE 13,2:COLOR 3,0:PRINT "CORRECCION NUEVA"
1560 LOCATE 12,31:COLOR 3,0:PRINT "O.D."
1570 LOCATE 14,31:COLOR 3,0:PRINT "O.I."
1580 LOCATE 17,2:COLOR 3,0:PRINT "A.V. CORRECCION NUEVA"
1590 LOCATE 18,31:COLOR 3,0:PRINT "OI"
1600 LOCATE 16,31:COLOR 3,0:PRINT "OD"
1610 COLOR 2,0
1620 RETURN
1630 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"REF":OPEN "O",#1,COD$:GOTO 200
1640 COMMON ACS,NUM$:CHAIN "B:IIID.BAS",180
```

S U B P R O G R A M A : 017

```
10 IF ACS=111 THEN NU$=DDDS:COD$=NU$+"DOD":OPEN "I",#1,COD$:COLOR 2,0:CLS:GOTO 1
660 SCREEN 3:COLOR 2,0:CLS
20 GOSUB 4370
30 A$=INKEY$
40 A$=INKEY$
50 IF A$="1" THEN GOTO 90
60 IF A$="2" THEN GOTO 1610
70 IF A$="3" THEN CHAIN "B:MENU.BAS",400
80 GOTO 40
90 COLOR 3,1:CLS:LOCATE 10,17,0:INPUT "INTRODUZCA EL NUMERO DE REFERNCIA (LUEGO
PULSE RETURN) ":"NUM$"
100 IF ACS=999 THEN GOTO 4440
110 COLOR 2,0:CLS:COD$=NUM$+"DOD"
120 OPEN "O",#1,COD$
130 ' 1 CUADRO
140 GOSUB 3020
150 GOSUB 3160
160 LOCATE 24,28:COLOR 3,1:PRINT " INTRODUZCA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA)"
170 A$=INKEY$
180 IF A$="F" THEN WRITE #1,A$:GOTO 350
190 IF A$="1" THEN WRITE #1,A$:COLOR 2,1:LOCATE 3,2,0:PRINT " 1 - OJO BLANCO "
GOTO 290
200 IF A$="2" THEN WRITE #1,A$:COLOR 2,1:LOCATE 5,2,0:PRINT " 2 - HIPEREMIA CILI
AR "
210 IF A$="3" THEN WRITE #1,A$:COLOR 2,1:LOCATE 7,2,0:PRINT " 3 - HIPEREMIA CONJ
UNTIVAL "
220 IF A$="4" THEN WRITE #1,A$:COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - QUEMOSIS CONJU
NTIVAL "
230 IF A$="5" THEN WRITE #1,A$:COLOR 2,1:LOCATE 11,2,0:PRINT " 5 - CONGESTION VE
NOSA "
240 IF A$="6" THEN WRITE #1,A$:COLOR 2,1:LOCATE 13,2,0:PRINT " 6 - ESTAFILLOMAS E
SCLERALES "
250 IF A$="7" THEN WRITE #1,A$:COLOR 2,1:LOCATE 15,2,0:PRINT " 7 - HEMORRAGIA SU
BCONJ. "
GOTO 290
```

```

260 IF A$="8" THEN WRITE #1,A$:COLOR 2,1:LOCATE 17,2,0:PRINT " 8 - CABEZA DE MED
USA " :GOTO 290
270 IF A$="9" THEN WRITE #1,A$:COLOR 2,1:LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACI
ON ":"A=19:GOTO 300
280 IF A$="0" THEN WRITE #1,A$:COLOR 2,1:LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACI
ON ":"A=21:GOTO 320
290 GOTO 170
300 LINE (240,179)-(799,179),3:LINE(240,190)-(799,190),3:LINE(240,179)-(240,19
0),3:LINE (799,179)-(799,190),3
310 LOCATE 24,28:COLOR 0,0:PRINT "
320 LOCATE 24,28:COLOR 3,1: PRINT " AL TERMINAR DE INTRODUCIR PULSE
RETURN " :LOCATE A,33,0:PRINT "":LOCATE A,33,0:COLOR 2,1:INPUT "",A$:WRITE #1,
A$:GOTO 160
320 LINE (240,199)-(799,199),3:LINE(240,210)-(799,210),3:LINE(240,199)-(240,21
0),3:LINE (799,199)-(799,210),3
330 LOCATE 24,28:COLOR 0,0:PRINT "
330 LOCATE 24,28:COLOR 3,1: PRINT " AL TERMINAR DE INTRODUCIR PULSE
RETURN " :LOCATE A,33,0:PRINT "":LOCATE A,33,0:COLOR 2,1:INPUT "",A$:WRITE #1,
A$:GOTO 160
340 LOCATE 24,28:COLOR 0,0:PRINT "
340 LOCATE 24,28:COLOR 3,1: PRINT " AL TERMINAR DE INTRODUCIR PULSE
RETURN " :LOCATE A,33,0:PRINT "":LOCATE A,33,0:COLOR 2,1:INPUT "",A$:WRITE #1,
A$:GOTO 160
350 , 2 CUADRO
360 COLOR 2,0:CLS
370 GOSUB 3230
380 LOCATE 24,28:COLOR 3,1:PRINT " INTRODUZCA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA)"
390 A$=INKEY$
400 IF A$="F" THEN WRITE #1,A$:GOTO 620
410 IF A$="1" THEN WRITE #1,A$: LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - TAMAÑO " ;GOT
O 520
420 IF A$="2" THEN WRITE #1,A$:COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - EDEMA " ;GOT
O 510
430 IF A$="3" THEN WRITE #1,A$:COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - DESGARROS EN
DESCMET " ;GOTO 510
440 IF A$="4" THEN WRITE #1,A$:COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - PRECIPIT
ADOS RETROCORNEALES " ;GOTO 510
450 IF A$="5" THEN WRITE #1,A$:COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - OPACIDADES "
:GOTO 540
460 IF A$="6" THEN WRITE #1,A$:COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - VASCULAR

```

```

IZACION "":GOTO 560
470 IF A$="7" THEN WRITE #1,A$:COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - QUERATITIS B
ULLOSA "":GOTO 510
480 IF A$="8" THEN WRITE #1,A$:COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - HIPOESTESIA
" :GOTO 510
490 IF A$="9" THEN WRITE #1,A$:COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALT
ERACION "":GOTO 580
500 IF A$="0" THEN WRITE #1,A$:COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALT
ERACION "":GOTO 600
510 GOTO 390
520 LINE (120,19)-(120,30),3:LINE(275,19)-(275,30),0:LINE (120,19)-(799,19),3:LI
NE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
530 LOCATE 3,18,0:COLOR 2,1: PRINT " " :LOCATE 3,18,0:INPUT "",A$:WRITE #1,A$:GOT
0 510
540 LINE (148, 99)-(148,110),3:LINE(275, 99)-(275,110),0:LINE (120, 99)-(799, 99
),3:LINE (120,110)-(799,110),3:LINE (799, 99)-(799,110),3
550 LOCATE 11,21,0:COLOR 2,1: PRINT " " ;LOCATE 11,21,0:INPUT "",A$:WRITE #1,A$:G
OTO 510
560 LINE (182,119)-(182,130),3:LINE(275,119)-(275,130),0:LINE (120,119)-(799,119
),3:LINE (120,130)-(799,130),3:LINE (799,119)-(799,130),3
570 LOCATE 13,25,0:COLOR 2,1: PRINT " " ;LOCATE 13,25,0:INPUT "",A$:WRITE #1,A$:G
OTO 510
580 LINE (184,179)-(184,190),3:LINE(275,179)-(275,190),0:LINE (120,179)-(799,179
),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,190),3
590 LOCATE 19,25,0:COLOR 2,1: PRINT " " ;LOCATE 19,25,0:INPUT "",A$:WRITE #1,A$:G
OTO 510
600 LINE (184,199)-(184,210),3:LINE(275,199)-(275,210),0:LINE (120,199)-(799,199
),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,210),3
610 LOCATE 21,25,0:COLOR 2,1: PRINT " " ;LOCATE 21,25,0:INPUT "",A$:WRITE #1,A$:G
OTO 510
620 COLOR 2,0:CLS:GOSUB 3430
630 LOCATE 24,28:COLOR 3,1:PRINT " INTRODUZCA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA) "
640 A$/=INKEY $ 
650 IF A$="F" THEN WRITE #1,A$:GOTO 850
660 IF A$="1" THEN WRITE #1,A$: LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - PROFUNDIDAD
" :GOTO 770
670 IF A$="2" THEN WRITE #1,A$:COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - TYNDAL " :GO
TO 760

```

```

680 IF A$="3" THEN WRITE #1,A$:COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - CORPUSCULOS
FLOTANTES " :GOTO 760
690 IF A$="4" THEN WRITE #1,A$:COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - GRANOS DE P
IGMENTO " :GOTO 760
700 IF A$="5" THEN WRITE #1,A$:COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - PRECIPITADOS
CICLICOS " :GOTO 790
710 IF A$="6" THEN WRITE #1,A$:COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - HIPOPION " :
GOTO 760
720 IF A$="7" THEN WRITE #1,A$:COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - HIPEMA " :G
OTO 760
730 IF A$="8" THEN WRITE #1,A$:COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - INVASION PIG
*C.ANT. " :GOTO 760
740 IF A$="9" THEN WRITE #1,A$:COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERA
CION " :GOTO 810
750 IF A$="0" THEN WRITE #1,A$:COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERA
CION " :GOTO 830
760 GOTO 640
770 LINE (120,19)-(120,30),1:LINE (233,19)-(233,30),0:LINE(154,19)-(154,30),3:LI
NE (120,19)-(799,19),3:LINE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
780 LOCATE 3,22,0:COLOR 2,1: PRINT " " :LOCATE 3,22,0:INPUT "",A$:WRITE #1,A$:GOT
0 760
790 LINE (120,99)-(120,110),1:LINE (233,99)-(233,110),0:LINE(236,99)-(236,110),3
:LINE (120,99)-(799,99),3:LINE (120,110)-(799,110),3:LINE (799,99)-(799,110),3
800 LOCATE 11,32,0:COLOR 2,1: PRINT " " :LOCATE 11,32,0:INPUT "",A$:WRITE #1,A$:G
OTO 760
810 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(236,179)-(236,190
),3:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,19
0),3
820 LOCATE 19,32,0:COLOR 2,1: PRINT " " :LOCATE 19,32,0:INPUT "",A$:WRITE #1,A$:G
OTO 760
830 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(236,199)-(236,210
),3:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,21
0),3
840 LOCATE 21,32,0:COLOR 2,1: PRINT " " :LOCATE 21,32,0:INPUT "",A$:WRITE #1,A$:G
OTO 760
850 COLOR 2,0:CLS:GOSUB 3620
860 LOCATE 24,28:COLOR 3,1:PRINT " INTRODUZCA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA)
870 A$=INKEY$
880 IF A$="F" THEN WRITE #1,A$:GOTO 1120

```

```

890 IF A$="1" THEN WRITE #1,A$:LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - TAMANO " :GOT
O 1000
900 IF A$="2" THEN WRITE #1,A$:LOCATE 5,2,0:PRINT " 2 - FORMA " :GOTO 1020
910 IF A$="3" THEN WRITE #1,A$:COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - DESVIACION P
UPILAR " :GOTO 990
920 IF A$="4" THEN WRITE #1,A$:COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - REFLEJO FOT
OMOTOR " :GOTO 1040
930 IF A$="5" THEN WRITE #1,A$:COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - BLOQUEO PUP
ILAR " :GOTO 990
940 IF A$="6" THEN WRITE #1,A$:COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - ECTROPTION P
IG. " :GOTO 990
950 IF A$="7" THEN WRITE #1,A$:COLOR 2,1:LOCATE 15,2,0:PRINT " 7 - DESCARRO BORD
E PUPILLAR " :GOTO 990
960 IF A$="8" THEN WRITE #1,A$:COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - OTRA ALTERAC
ION " :GOTO 1060
970 IF A$="9" THEN WRITE #1,A$:COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERAC
ION " :GOTO 1080
980 IF A$="0" THEN WRITE #1,A$:COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERAC
ION " :GOTO 1100
990 GOTO 870
1000 LINE (120,19)-(120,30),3:LINE (233,19)-(233,30),0:LINE(154,19)-(154,30),0:L
INE (120,19)-(799,19),3:LINE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
1010 LOCATE 3,18,0:COLOR 2,1: PRINT " " :LOCATE 3,18,0:INPUT "",A$:WRITE #1,A$:GO
TO 990
1020 LINE (120,39)-(120,50),3:LINE (233,39)-(233,50),0:LINE(154,39)-(154,50),0:L
INE (120,39)-(799,39),3:LINE (120,50)-(799,50),3:LINE (799,39)-(799,50),3
1030 LOCATE 5,18,0:COLOR 2,1: PRINT " " :LOCATE 5,18,0:INPUT "",A$:WRITE #1,A$:GO
TO 990
1040 LINE (120,79)-(120,90),1:LINE (233,79)-(233,90),0:LINE(204,79)-(204,90),2:L
INE (120,79)-(799,79),3:LINE (120,90)-(799,90),3:LINE (799,79)-(799,90),3
1050 LOCATE 9,28,0:COLOR 2,1: PRINT " " :LOCATE 9,28,0:INPUT "",A$:WRITE #1,A$:GO
TO 990
1060 LINE (120,159)-(120,170),1:LINE (233,159)-(233,170),0:LINE(204,159)-(204,17
0),2:LINE (120,159)-(799,159),3:LINE (120,170)-(799,170),3:LINE (799,159)-(799,1
70),3
1070 LOCATE 17,28,0:COLOR 2,1: PRINT " " :LOCATE 17,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 990
1080 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3

```

```

1090 LOCATE 19,28,0:COLOR 2,1: PRINT " ";LOCATE 19,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 990
1100 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3
1110 LOCATE 21,28,0:COLOR 2,1: PRINT " ";LOCATE 21,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 990
1120 '5 CUADRO
1130 COLOR 2,0:CLS:GOSUB 3810
1140 LOCATE '24,28:COLOR 3,1:PRINT " INTRODUZA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA)"
1150 A$=INKEY$
1160 IF A$="F" THEN WRITE #1,A$:GOTO 1380
1170 IF A$="1" THEN WRITE #1,A$:COLOR 2,1: LOCATE 3,2,0:PRINT " 1 - ANIRIDIA ";
GOTO 1270
1180 IF A$="2" THEN WRITE #1,A$:COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - ASPECTO " :G
OTO 1280
1190 IF A$="3" THEN WRITE #1,A$:COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - ATROFIA TOT
AL " :GOTO 1270
1200 IF A$="4" THEN WRITE #1,A$:COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - ATROFIA SEGMI
ENTARIA " :GOTO 1270
1210 IF A$="5" THEN WRITE #1,A$:COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - ALT. POR MI
OTICOS " :GOTO 1270
1220 IF A$="6" THEN WRITE #1,A$:COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - HETEROCHROMI
A " :GOTO 1270
1230 IF A$="7" THEN WRITE #1,A$:COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - VASCULARIZA
CION " :GOTO 1360
1240 IF A$="8" THEN WRITE #1,A$:COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - SINEQUIAS "
:GOTO 1300
1250 IF A$="9" THEN WRITE #1,A$:COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERA
CION " :GOTO 1320
1260 IF A$="0" THEN WRITE #1,A$:COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERA
CION " :GOTO 1340
1270 GOTO 1150
1280 LINE (120,39)-(120,50),3:LINE (233,39)-(233,50),0:LINE(154,39)-(154,50),0:L
INE (120,39)-(799,39),3:LINE (120,50)-(799,50),3:LINE (799,39)-(799,50),3
1290 LOCATE 5,18,0:COLOR 2,1: PRINT " ";LOCATE 5,18,0:INPUT "",A$:WRITE #1,A$:GO
TO 1270
1300 LINE (120,159)-(120,170),1:LINE (233,159)-(233,170),0:LINE(204,159)-(204,17
0),2:LINE (120,159)-(799,159),3:LINE (120,170)-(799,170),3:LINE (799,159)-(799,1
70),3

```

```

1310 LOCATE 17,28,0:COLOR 2,1: PRINT " " :LOCATE 17,28,0:INPUT " ",A$:WRITE #1,A$:
GOTO 1270
1320 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3
1330 LOCATE 19,28,0:COLOR 2,1: PRINT " " :LOCATE 19,28,0:INPUT " ",A$:WRITE #1,A$:
GOTO 1270
1340 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3
1350 LOCATE 21,28,0:COLOR 2,1: PRINT " " :LOCATE 21,28,0:INPUT " ",A$:WRITE #1,A$:
GOTO 1270
1360 LINE (120,139)-(120,150),1:LINE (233,139)-(233,150),0:LINE(204,139)-(204,15
0),2:LINE (120,139)-(799,139),3:LINE (120,150)-(799,150),3:LINE (799,139)-(799,1
50),3
1370 LOCATE 15,28,0:COLOR 2,1: PRINT " " :LOCATE 15,28,0:INPUT " ",A$:WRITE #1,A$:
GOTO 1270
1380 ,6 CUADRO
1390 COLOR 2,0:CLS:GOSUB 4000
1400 LOCATE 24,28:COLOR 3,1:PRINT " INTRODUZCA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA)"
1410 A$=INKEY$
1420 IF A$="F" THEN WRITE #1,A$:GOTO 1580
1430 IF A$="1" THEN WRITE #1,A$:COLOR 2,1: LOCATE 3,2,0:PRINT " 1 - AFAQUIA ";G
OTO 1530
1440 IF A$="2" THEN WRITE #1,A$:COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - CAT. PRIMIT
IVA ":"GOTO 1530
1450 IF A$="3" THEN WRITE #1,A$:COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - CAT. SECUND
ARIA ":"GOTO 1530
1460 IF A$="4" THEN WRITE #1,A$:COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - EXFOLIACION
CAPSULAR ":"GOTO 1530
1470 IF A$="5" THEN WRITE #1,A$:COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - LUXACION ";
GOTO 1530
1480 IF A$="6" THEN WRITE #1,A$:COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - SUBLUXACION
":GOTO 1530
1490 IF A$="7" THEN WRITE #1,A$:COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - HIPOPLASIA
":"GOTO 1530
1500 IF A$="8" THEN WRITE #1,A$:COLOR 2,1:LOCATE 17,2,0:PRINT " 8 - PRECIPITADOS
PRECAPS. ":"GOTO 1530
1510 IF A$="9" THEN WRITE #1,A$:COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERA

```

```

CION ":"GOTO 1540
1520 IF A$="0" THEN WRITE #1,A$:COLOR 2,1:LOCATE 21,2,0:PRINT " 0 - OTRA ALTERA
CION ":"GOTO 1560
1530 GOTO 1410
1540 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3
1550 LOCATE 19,28,0:COLOR 2,1: PRINT " " ;LOCATE 19,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 1530
1560 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3
1570 LOCATE 21,28,0:COLOR 2,1: PRINT " " ;LOCATE 21,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 1530
1580 CLOSE #
1590 IF ACS=999 THEN GOTO 4450
1600 GOSUB 4190
1610 ' LEER
1620 COLOR 1,3:CLS:LOCATE 10,17,0:INPUT " INTRODUZCA EL NUMERO DE REFERNCIA (LUEG
O PULSE RETURN) ":" ,NUM$
1630 COLOR 2,0:CLS
1640 COD$=NUM$+"DOD"
1650 OPEN "I",#1,COD$
1660 ' 1 CUADRO
1670 GOSUB 3020
1680 GOSUB 3160
1690 INPUT #1,A$
1700 IF A$="F" THEN GOSUB 4280:GOTO 1850
1710 IF A$="1" THEN COLOR 2,1:LOCATE 3,2,0:PRINT " 1 - OJO BLANCO " :GOTO 1690
1720 IF A$="2" THEN COLOR 2,1:LOCATE 5,2,0:PRINT " 2 - HIPERERIA CILIAR " :GOTO 1
690
1730 IF A$="3" THEN COLOR 2,1:LOCATE 7,2,0:PRINT " 3 - HIPERERIA CONJUNTIVAL " :G
OTO 1690
1740 IF A$="4" THEN COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - QUEMOSIS CONJUNTIVAL " :GO
TO 1690
1750 IF A$="5" THEN COLOR 2,1:LOCATE 11,2,0:PRINT " 5 - CONGESTION VENOSA " :GOTO
1690
1760 IF A$="6" THEN COLOR 2,1:LOCATE 13,2,0:PRINT " 6 - ESTAFILOMAS ESCLERALES "
:GOTO 1690
1770 IF A$="7" THEN COLOR 2,1:LOCATE 15,2,0:PRINT " 7 - HEMORRAGIA SUBCONJ. " :GO

```

```

70 1690
1780 IF A$="8" THEN COLOR 2,1:LOCATE 17,2,0:PRINT " 8 - CABEZA DE MEDUSA " :GOTO
1690
1790 IF A$="9" THEN COLOR 2,1:LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :A=19:G
OTO 1810
1800 IF A$="0" THEN COLOR 2,1:LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " ;A=21:G
OTO 1830
1810 LINE (240,179)-(799,179),3:LINE(240,190)-(799,190),3:LINE(240,179)-(240,1
90),3:LINE (799,179)-(799,190),3
1820 INPUT #1,A$:LOCATE 19,32:COLOR 2,1:PRINT A$:GOTO 1690
1830 LINE (240,199)-(799,199),3:LINE(240,210)-(799,210),3:LINE(240,199)-(240,2
10),3:LINE (799,199)-(799,210),3
1840 INPUT #1,A$:LOCATE 21,32:COLOR 2,1:PRINT A$:GOTO 1690
1850 ' 2 CUADRO
1860 COLOR 2,0:CLS
1870 GOSUB 3230
1880 INPUT #1,A$
1890 IF A$="F" THEN GOSUB 4280:GOTO 2100
1900 IF A$="1" THEN LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - TAMAÑO " :GOTO 2000
1910 IF A$="2" THEN COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - EDEMA " :GOTO 1880
1920 IF A$="3" THEN COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - DESGARROS EN DESCMET "
:GOTO 1880
1930 IF A$="4" THEN COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - PRECIPITADOS RETROCORNE
ALES " :GOTO 1880
1940 IF A$="5" THEN COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - OPACIDADES " :GOTO 2020
1950 IF A$="6" THEN COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - VASCULARIZACION " :GOTO
2040
1960 IF A$="7" THEN COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - QUERATITIS BULLOSA " :GO
TO 1880
1970 IF A$="8" THEN COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - HIPOESTESIA " :GOTO 188
0
1980 IF A$="9" THEN COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :GOTO
2060
1990 IF A$="0" THEN COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " :GOTO
2080
2000 LINE (120,19)-(120,30),3:LINE(275,19)-(275,30),0:LINE (120,19)-(799,19),3:L
INE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
2010 INPUT #1,A$:LOCATE 3,18,0:COLOR 2,1:PRINT A$:GOTO 1880
2020 LINE (148,99)-(148,110),3:LINE(275, 99)-(275,110),0:LINE (120, 99)-(799, 9
9),3:LINE (120,110)-(799,110),3:LINE (799, 99)-(799,110),3

```

```

2030 INPUT #1,A$:LOCATE 11,21,0:COLOR 2,1:PRINT A$:GOTO 1880
2040 LINE (182,119)-(182,130),3:LINE(275,119)-(275,130),0:LINE (120,119)-(799,119),3:LINE (120,130)-(799,130),3:LINE (799,119)-(799,130),3
2050 INPUT #1,A$:LOCATE 13,25,0:COLOR 2,1:PRINT A$:GOTO 1880
2060 LINE (184,179)-(184,190),3:LINE(275,179)-(275,190),0:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,190),3
2070 INPUT #1,A$:COLOR 2,1: LOCATE 19,25,0:PRINT A$:GOTO 1880
2080 LINE (184,199)-(184,210),3:LINE(275,199)-(275,210),0:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,210),3
2090 INPUT #1,A$:LOCATE 21,25,0:COLOR 2,1: PRINT A$:GOTO 1880
2100 COLOR 2,0:CLS:GOSUB 3430
2110 INPUT #1,A$
2120 IF A$="F" THEN GOSUB 4280:GOTO 2310
2130 IF A$="1" THEN LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - PROFUNDIDAD " :GOTO 223
0
2140 IF A$="2" THEN COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - TYNDAL " :GOTO 2110
2150 IF A$="3" THEN COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - CORPUSCULOS FLOTANTES "
:GOTO 2110
2160 IF A$="4" THEN COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - GRANOS DE PIGMENTO " :G
OT0 2110
2170 IF A$="5" THEN COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - PRECIPITADOS CICLICOS "
:GOTO 2250
2180 IF A$="6" THEN COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - HIPOPION " :GOTO 2110
2190 IF A$="7" THEN COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - HIPEMA " :GOTO 2110
2200 IF A$="8" THEN COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - INVASION PIG. C.ANT. "
:GOTO 2110
2210 IF A$="9" THEN COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :GOTO
2270
2220 IF A$="0" THEN COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " :GOTO
2290
2230 LINE (120,19)-(120,30),1:LINE (233,19)-(233,30),0:LINE(154,19)-(154,30),3:L
INE (120,19)-(799,19),3:LINE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
2240 INPUT #1,A$:LOCATE 3,23:COLOR 2,1: PRINT A$:GOTO 2110
2250 LINE (120,99)-(120,110),1:LINE (233,99)-(233,110),0:LINE(236,99)-(236,110),
3:LINE (120,99)-(799,99),3:LINE (120,110)-(799,110),3:LINE (799,99)-(799,110),3
2260 INPUT #1,A$:LOCATE 11,32:COLOR 2,1: PRINT A$:GOTO 2110
2270 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(236,179)-(236,19
0),3:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3
2280 INPUT #1,A$:LOCATE 19,32,0:COLOR 2,1: PRINT A$:GOTO 2110
2290 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(236,199)-(236,21
1)

```

```

0)' ,3:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3
2300 INPUT #1,A$:LOCATE 21,32,0:COLOR 2,1: PRINT A$:GOTO 2110
2310 COLOR 2,0:CLS:GOSUB 3620
2320 INPUT #1,A$,
2330 IF A$="F" THEN GOSUB 4280:GOTO 2560
2340 IF A$="1" THEN LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - TAMANO " :GOTO 2440
2350 IF A$="2" THEN LOCATE 5,2,0:PRINT " 2 - FORMA " :GOTO 2460
2360 IF A$="3" THEN COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - DESVIACION PUPILAR " :GO
T0 2320
2370 IF A$="4" THEN COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - REFLEJO FOTOMOTOR " :GO
T0 2480
2380 IF A$="5" THEN COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - BLOQUEO PUPILAR " :GOTO
2320
2390 IF A$="6" THEN COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - ECTROPTION PIG. " :GOTO
2320
2400 IF A$="7" THEN COLOR 2,1:LOCATE 15,2,0:PRINT " 7 - DESGARRO BORDE PUPILAR "
:GOTO 2320
2410 IF A$="8" THEN COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - OTRA ALTERACION " :GOTO
2500
2420 IF A$="9" THEN COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :GOTO
2520
2430 IF A$="0" THEN COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " :GOTO
2540
2440 LINE (120,19)-(120,30),3:LINE (233,19)-(233,30),0:LINE(154,19)-(154,30),0:L
INE (120,19)-(799,19),3:LINE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
2450 INPUT #1,A$:LOCATE 3,18:COLOR 2,1: PRINT A$:GOTO 2320
2460 LINE (120,39)-(120,50),3:LINE (233,39)-(233,50),0:LINE(154,39)-(154,50),0:L
INE (120,39)-(799,39),3:LINE (120,50)-(799,50),3:LINE (799,39)-(799,50),3
2470 INPUT #1,A$:LOCATE 5,18,0:COLOR 2,1: PRINT A$:GOTO 2320
2480 LINE (120,79)-(120,90),1:LINE (233,79)-(233,90),0:LINE(204,79)-(204,90),2:L
INE (120,79)-(799,79),3:LINE (120,90)-(799,90),3:LINE (799,79)-(799,90),3
2490 INPUT #1,A$:LOCATE 9,29,0:COLOR 2,1: PRINT A$:GOTO 2320
2500 LINE (120,159)-(120,170),1:LINE (233,159)-(233,170),0:LINE(204,159)-(204,17
0),2:LINE (120,159)-(799,159),3:LINE (120,170)-(799,170),3:LINE (799,159)-(799,1
70),3
2510 INPUT #1,A$:LOCATE 17,29,0:COLOR 2,1: PRINT A$:GOTO 2320
2520 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3

```

```

2530 INPUT #1,A$:LOCATE 19,29,0:COLOR 2,1: PRINT A$:GOTO 2320
2540 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3
2550 INPUT #1,A$:LOCATE 21,29,0:COLOR 2,1: PRINT A$:GOTO 2320
2560 '5 CUADRO
2570 COLOR 2,0:CLS:GOSUB 3810
2580 INPUT #1,A$
2590 IF A$="F" THEN GOSUB 4280:GOTO 2800
2600 IF A$="1" THEN COLOR 2,1: LOCATE 3,2,0:PRINT " 1 - ANIRIDIA " :GOTO 2580
2610 IF A$="2" THEN LOCATE 5,2,0:PRINT " 2 - ASPECTO " :GOTO 2700
2620 IF A$="3" THEN COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - ATROFIA TOTAL " :GOTO 2
580
2630 IF A$="4" THEN COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - ATROFIA SEGMENTARIA " :G
OTO 2580
2640 IF A$="5" THEN COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - ALT. POR MIOTICOS " :GOT
O 2580
2650 IF A$="6" THEN COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - HETEROCROMIA " :GOTO 258
0
2660 IF A$="7" THEN COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - VASCULARIZACION " :GOTO
2780
2670 IF A$="8" THEN COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - SINEQUIAS " :GOTO 2720
2680 IF A$="9" THEN COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :GOTO
2740
2690 IF A$="0" THEN COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " :GOTO
2760
2700 LINE (120,39)-(120,50),3:LINE (233,39)-(233,50),0:LINE(154,39)-(154,50),0:L
INE (120,39)-(799,39),3:LINE (120,50)-(799,50),3:LINE (799,39)-(799,50),3
2710 INPUT #1,A$:LOCATE 5,18,0:COLOR 2,1: PRINT A$:GOTO 2580
2720 LINE (120,159)-(120,170),1:LINE (233,159)-(233,170),0:LINE(204,159)-(204,17
0),2:LINE (120,159)-(799,159),3:LINE (120,170)-(799,170),3:LINE (799,159)-(799,1
70),3
2730 INPUT #1,A$:LOCATE 17,28,0:COLOR 2,1: PRINT A$:GOTO 2580
2740 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3
2750 INPUT #1,A$:LOCATE 19,28,0:COLOR 2,1: PRINT A$:GOTO 2580
2760 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3

```

```

2770 INPUT #1,A$:LOCATE 21,28,0:COLOR 2,1: PRINT A$:GOTO 2580
2780 LINE (120,139)-(120,150),1:LINE (233,139)-(233,150),0:LINE(204,139)-(204,15
0),2:LINE (120,139)-(799,139),3:LINE (120,150)-(799,150),3:LINE (799,139)-(799,1
50),3
2790 INPUT #1,A$:LOCATE 15,28,0:COLOR 2,1: PRINT A$:GOTO 2580
2800 , 6 CUADRO
2810 COLOR 2,0:CLS:GOSUB 4000
2820 INPUT #1,A$
2830 IF A$="F" THEN GOSUB 4280 :GOTO 2980
2840 IF A$="1" THEN COLOR 2,1: LOCATE 3,2,0:PRINT " 1 - AFAQUIA " :GOTO 2820
2850 IF A$="2" THEN COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - CAT. PRIMITIVA " :GOTO 2
820
2860 IF A$="3" THEN COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - CAT. SECUNDARIA " :GOTO
2820
2870 IF A$="4" THEN COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - EXFOLIACION CAPSULAR " :G
OTO 2820
2880 IF A$="5" THEN COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - LUXACION " :GOTO 2820
2890 IF A$="6" THEN COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - SUBLUXACION " :GOTO 2820
2900 IF A$="7" THEN COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - HIPOPLASIA " :GOTO 2820
2910 IF A$="8" THEN COLOR 2,1:LOCATE 17,2,0:PRINT " 8 - PRECIPITADOS PRECAPS. " :
GOTO 2820
2920 IF A$="9" THEN COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :GOTO
2940
2930 IF A$="0" THEN COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " :GOTO
2960
2940 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3
2950 INPUT #1,A$:LOCATE 19,28,0:COLOR 2,1: PRINT A$:GOTO 2820
2960 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3
2970 INPUT #1,A$:LOCATE 21,28,0:COLOR 2,1: PRINT A$:GOTO 2820
2980 CLOSE #1
2990 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
3000 GOSUB 4190
3010 LOCATE 1,1,8:COLOR 2,0:END
3020 , 1 CUADRO
3030 LOCATE 1,1,COLOR 1,3:PRINT " CONJUNTIVA Y ESCLERA O.D."
3040 COLOR 2,0

```

```

3050 LOCATE 3,2,0:PRINT " 1 - OJO BLANCO "
3060 LOCATE 5,2,0:PRINT " 2 - HIPEREMIA CILIAR "
3070 LOCATE 7,2,0:PRINT " 3 - HIPEREMIA CONJUNTIVAL "
3080 LOCATE 9,2,0:PRINT " 4 - QUEMOSIS CONJUNTIVAL "
3090 LOCATE 11,2,0:PRINT " 5 - CONGESTION VENOSA "
3100 LOCATE 13,2,0:PRINT " 6 - ESTAFILOMAS ESCLERALES "
3110 LOCATE 15,2,0:PRINT " 7 - HEMORRAGIA SUBCONJ . "
3120 LOCATE 17,2,0:PRINT " 8 - CABEZA DE MEDUSA "
3130 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
3140 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
3150 RETURN
3160 ' LINEAS 1 CUADRO
3170 A=7:B=240:FOR T=19 TO 199 STEP 20:LINE (A,T)-(B,T),3:NEXT
3180 A=7:B=240:FOR T=30 TO 210 STEP 20:LINE (A,T)-(B,T),3:NEXT
3190 LINE(7,19)-(7,30),3:LINE(7,39)-(7,50),3:LINE(7,59)-(7,79)-(7,9
0),3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,150),3:LINE(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
3200 LINE(240,19)-(240,30),3:LINE(240,39)-(240,50),3:LINE(240,59)-(240,70),3:LIN
E(240,79)-(240,90),3:LINE(240,99)-(240,110),3:LINE(240,119)-(240,130),3:LINE(240
,139)-(240,150),3
3210 LINE(240,159)-(240,170),3:LINE(240,179)-(240,190),3:LINE(240,199)-(240,210)
'3
3220 RETURN
3230 ' 2 CUADRO
3240 LOCATE 1,1,0:COLOR 1,3:PRINT " CORNEA O.D. "
3250 COLOR 2,0
3260 LOCATE 3,2,0:PRINT " 1 - TAMANO "
3270 LOCATE 5,2,0:PRINT " 2 - EDEMA "
3280 LOCATE 7,2,0:PRINT " 3 - DESGARROS EN DESCemet "
3290 LOCATE 9,2,0:PRINT " 4 - PRECIPITADOS RETROCORNEALES "
3300 LOCATE 11,2,0:PRINT " 5 - OPACIDADES "
3310 LOCATE 13,2,0:PRINT " 6 - VASCULARIZACION "
3320 LOCATE 15,2,0:PRINT " 7 - QUERATITIS BULLOSA "
3330 LOCATE 17,2,0:PRINT " 8 - HIPOESTESIA "
3340 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
3350 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
3360 A=7:B=275:FOR T=19 TO 199 STEP 20:LINE (A,T)-(B,T),3:NEXT
3370 A=7:B=275:FOR T=30 TO 210 STEP 20:LINE (A,T)-(B,T),3:NEXT
3380 LINE(7,19)-(7,30),3:LINE(7,39)-(7,50),3:LINE(7,59)-(7,70),3:LINE(7,79)-(7,9
0),3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,150),3:LINE(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3

```

```

)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
3390 LINE(275,19)-(275,30),3:LINE(275,39)-(275,50),3:LINE(275,59)-(275,70),3:LIN
E(275,79)-(275,90),3:LINE(275,99)-(275,110),3:LINE(275,119)-(275,130),3:LINE(275
,139)-(275,150),3
3400 LINE(275,159)-(275,170),3:LINE(275,179)-(275,190),3:LINE(275,199)-(275,210)
3
3410 COLOR 2,0
3420 RETURN
3430 ,3 CUADRO C.ANT.
3440 LOCATE 1,1,0:COLOR 1,3:PRINT "CAMARA ANTEROIOR O.D. "
3450 COLOR 2,0
3460 LOCATE 3,2,0:PRINT " 1 - PROFUNDIDAD "
3470 LOCATE 5,2,0:PRINT " 2 - TYNDAL "
3480 LOCATE 7,2,0:PRINT " 3 - CORPUSCULOS FLOTANTES "
3490 LOCATE 9,2,0:PRINT " 4 - GRANOS DE PIGMENTO "
3500 LOCATE 11,2,0:PRINT " 5 - PRECIPITADOS CICLICOS "
3510 LOCATE 13,2,0:PRINT " 6 - HIPOPION "
3520 LOCATE 15,2,0:PRINT " 7 - HIPEMA "
3530 LOCATE 17,2,0:PRINT " 8 - INVASION PIG. C.ANT. "
3540 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
3550 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
3560 A=7:B=233:FOR T=19 TO 199 STEP 20:LINE (A,T)-(B,T),3:NEXT
3570 A=7:B=233:FOR T=30 TO 210 STEP 20:LINE (A,T)-(B,T),3:NEXT
3580 LINE(7,19)-(7,30),3:LINE(7,39)-(7,50),3:LINE(7,59)-(7,70),3:LINE(7,79)-(7,9
0),3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,150),3:LINE(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
3590 LINE(233,19)-(233,30),3:LINE(233,39)-(233,50),3:LINE(233,59)-(233,70),3:LIN
E(233,79)-(233,90),3:LINE(233,99)-(233,110),3:LINE(233,119)-(233,130),3:LINE(233
,139)-(233,150),3
3600 LINE(233,159)-(233,170),3:LINE(233,179)-(233,190),3:LINE(233,199)-(233,210)
3
3610 RETURN
3620 ,4 CUADRO PUPILA
3630 LOCATE 1,1,0:COLOR 1,3:PRINT " PUPILA O.D. "
3640 COLOR 2,0
3650 LOCATE 3,2,0:PRINT " 1 - TAMAÑO "
3660 LOCATE 5,2,0:PRINT " 2 - FORMA "
3670 LOCATE 7,2,0:PRINT " 3 - DESVIACION PUPILAR "
3680 LOCATE 9,2,0:PRINT " 4 - REFLEJO FOTOMOTOR "
3690 LOCATE 11,2,0:PRINT " 5 - BLOQUEO PUPILAR "
3700 LOCATE 13,2,0:PRINT " 6 - ECTROPION PIG. "

```

```

3710 LOCATE 15,2,0:PRINT " 7 - DESGARRO BORDE PUPILAR "
3720 LOCATE 17,2,0:PRINT " 8 - OTRA ALTERACION "
3730 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
3740 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
3750 A=7:B=233:FOR T=19 TO 199 STEP 20:LINE (A,T)-(B,T),3:NEXT
3760 A=7:B=233:FOR T=30 TO 210 STEP 20:LINE (A,T)-(B,T),3:NEXT
3770 LINE(7,19)-(7,30),3:LINE(7,39)-(7,50),3:LINE(7,59)-(7,79)-(7,9
0),3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
3780 LINE(233,19)-(233,30),3:LINE(233,39)-(233,50),3:LINE(233,59)-(233,70),3:LIN
E(233,79)-(233,90),3:LINE(233,99)-(233,110),3:LINE(233,119)-(233,130),3:LINE(233
,139)-(233,150),3
3790 LINE(233,159)-(233,170),3:LINE(233,179)-(233,190),3:LINE(233,199)-(233,210)
3
3800 RETURN
3810 , 5 CUADRO IRIS
3820 LOCATE 1,1,0:COLOR 1,3:PRINT " I R I S   O.D. "
3830 COLOR 2,0
3840 LOCATE 3,2,0:PRINT " 1 - ANIRIDIA "
3850 LOCATE 5,2,0:PRINT " 2 - ASPECTO "
3860 LOCATE 7,2,0:PRINT " 3 - ATROFIA TOTAL "
3870 LOCATE 9,2,0:PRINT " 4 - ATROFIA SEGMENTARIA "
3880 LOCATE 11,2,0:PRINT " 5 - ALT. POR MIOTICOS "
3890 LOCATE 13,2,0:PRINT " 6 - HETEROCROMIA "
3900 LOCATE 15,2,0:PRINT " 7 - VASCULARIZACION "
3910 LOCATE 17,2,0:PRINT " 8 - SINEQUIAS "
3920 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
3930 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
3940 A=7:B=233:FOR T=19 TO 199 STEP 20:LINE (A,T)-(B,T),3:NEXT
3950 A=7:B=233:FOR T=30 TO 210 STEP 20:LINE (A,T)-(B,T),3:NEXT
3960 LINE(7,19)-(7,30),3:LINE(7,39)-(7,50),3:LINE(7,59)-(7,79)-(7,9
0),3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
3970 LINE(233,19)-(233,30),3:LINE(233,39)-(233,50),3:LINE(233,59)-(233,70),3:LIN
E(233,79)-(233,90),3:LINE(233,99)-(233,110),3:LINE(233,119)-(233,130),3:LINE(233
,139)-(233,150),3
3980 LINE(233,159)-(233,170),3:LINE(233,179)-(233,190),3:LINE(233,199)-(233,210)
3
3990 RETURN
4000 , 6 CUADRO CRISTALINO

```

```

4010 LOCATE 1,1,0:COLOR 1,3:PRINT " C R I S T A L I N O   O.D. "
4020 COLOR 2,0
4030 LOCATE 3,2,0:PRINT " 1 - AFAQUIA "
4040 LOCATE 5,2,0:PRINT " 2 - CAT. PRIMITIVA "
4050 LOCATE 7,2,0:PRINT " 3 - CAT. SECUNDARIA "
4060 LOCATE 9,2,0:PRINT " 4 - EXFOLIACION CAPSULAR "
4070 LOCATE 11,2,0:PRINT " 5 - LUXACION "
4080 LOCATE 13,2,0:PRINT " 6 - SUBLUXACION "
4090 LOCATE 15,2,0:PRINT " 7 - HIPOPLASIA "
4100 LOCATE 17,2,0:PRINT " 8 - PRECIPITADOS PRECAPS. "
4110 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
4120 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
4130 A=7:B=233:FOR T=19 TO 199 STEP 20:LINE (A,T)-(B,T),3:NEXT
4140 A=7:B=233:FOR T=30 TO 210 STEP 20:LINE (A,T)-(B,T),3:NEXT
4150 LINE(7,19)-(7,30),3:LINE(7,39)-(7,50),3:LINE(7,59)-(7,79)
0,3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
4160 LINE(233,19)-(233,30),3:LINE(233,39)-(233,50),3:LINE(233,59)-(233,70),3:LIN
E(233,79)-(233,90),3:LINE(233,99)-(233,110),3:LINE(233,119)-(233,130),3:LINE(233
4170 LINE(233,159)-(233,170),3:LINE(233,179)-(233,190),3:LINE(233,199)-(233,210)
'3

4180 RETURN
4190 ' CAMBIO PROGRAMA
4200 COLOR 0,3:CLS
4210 LOCATE 4,15,0:COLOR 0,3:PRINT " P U L S E   L A   O P C I O N   E L E G I D
A"
4220 LOCATE 7,20:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
4230 LOCATE 9,20:COLOR 1,3:PRINT " 2 - VOLVER AL MENU"
4240 A$=INKEY$
4250 IF A$="1" THEN CHAIN "B:III.BAS"
4260 IF A$="2" THEN CHAIN "B:MENU.BAS",400
4270 GOTO 4240
4280 ' PULSE RETURN
4290 LOCATE 24,40,0:COLOR 2,1:PRINT " PULSE RETURN "
4300 A$=INKEY$
4310 IF A$=CHR$(13) THEN GOTO 4330
4320 GOTO 4300
4330 LOCATE 24,40,0:COLOR 2,0:PRINT " "
4340 ' TIEMPO
        " :RETURN

```

```
4350 FOR TP=1 TO 100:NEXT
4360 RETURN
4370 COLOR 0,3:CLS
4380 LOCATE 1,1,0 :COLOR 3,1:PRINT " B I O M I C R O S C O P I A      O.D."
4390 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E   L A   O P C I O N      E L E G I D
A"
4400 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS "
4410 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS "
4420 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL "
4430 RETURN
4440 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"DOD":OPEN "O",#1,COD$:COLOR 2,0:
CLS:GOTO 130
4450 COMMON ACS,NUM$:CHAIN "B:III.I.BAS",180
```

```

10 COMMON ACS,DDD$
20 IF ACS=111 THEN NU$=DDD$:COD$=NU$+"SENO":GOTO 920
30 SCREEN 3:COLOR 1,3:CLS:CLOSE
40 LOCATE 1,1:COLOR 3,1:PRINT " S E N O C A M E R U L A R - G O N I O S C O
P I A "
50 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D A "
60 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS"
70 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS"
80 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL "
90 A$=INKEY$:
100 IF A$="1" THEN GOTO 140
110 IF A$="2" THEN GOTO 880
120 IF A$="3" THEN CHAIN "B:MENU.BAS",400
130 GOTO 90
140 COLOR 3,1:CLS:LOCATE 10,17,8:COLOR 3,1:INPUT "INTRODUZCA EL NUMERO DE HISTOR
IAL (LUEGO PULSE RETURN) :" ,NUM$:
150 IF ACS=999 THEN GOTO 3050
160 GOSUB 1680
170 A$="SENO"
180 COD$=NUM$+A$:
190 OPEN "O",#1,COD$:
200 LOCATE 24,28:COLOR 0,1:PRINT " INTRODUZCA LAS CIFRAS DE TENSION INTRAOCULAR
(LUEGO PULSE RETURN) "
210 LOCATE 1,1,8
220 LOCATE 9,38,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$:
230 LOCATE 11,38,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$:
240 LOCATE 24,25:COLOR 0,3:PRINT " INTRODUZCA LAS CIFRAS DE LOS DIAMETROS PUPIL
ARES (LUEGO PULSE RETURN) "
250 LOCATE 9,81,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$:
260 LOCATE 11,81,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$:
270 LOCATE 24,25:COLOR 0,1:PRINT " INTRODUZCA LAS CIFRAS DEL EXAMEN GONIOSCOPI
C (LUEGO PULSE RETURN) "
280 LOCATE 14,23,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$:
290 LOCATE 18,34,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$:
300 LOCATE 22,23,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$:

```

```

310 LOCATE 18,10,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$
320 LOCATE 14,70,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$
330 LOCATE 18,81,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$
340 LOCATE 22,70,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$
350 LOCATE 18,57,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$
360 ' PRIMER CUADRO OJO DERECHO
370 COLOR 2,0:CLS
380 GOSUB 2230
390 GOSUB 2740
400 LOCATE 1,1:COLOR 1,3:PRINT " O J O      D E R E C H O "
410 GOSUB 2820
420 ' SEGUNDO CUADRO
430 COLOR 2,0:CLS
440 GOSUB 2350
450 GOSUB 2740
460 LOCATE 1,1:COLOR 1,3:PRINT " O J O      D E R E C H O "
470 GOSUB 2820
480 ' TERCER CUADRO
490 COLOR 2,0:CLS
500 GOSUB 2480
510 GOSUB 2740
520 LOCATE 1,1:COLOR 1,3:PRINT " O J O      D E R E C H O "
530 GOSUB 2820
540 ' CUARTO CUADRO
550 COLOR 2,0:CLS
560 GOSUB 2610
570 GOSUB 2740
580 LOCATE 1,1:COLOR 1,3:PRINT " O J O      D E R E C H O "
590 GOSUB 2820
600 ' PRIMER CUADRO OJO IZQUIERDO
610 COLOR 2,0:CLS
620 GOSUB 2230
630 GOSUB 2740
640 LOCATE 1,1:COLOR 1,3:PRINT " O J O      I Z Q U I E R D O "
650 GOSUB 2820
660 ' SEGUNDO CUADRO
670 COLOR 2,0:CLS
680 GOSUB 2350
690 GOSUB 2740
700 LOCATE 1,1:COLOR 1,3:PRINT " O J O      I Z Q U I E R D O "
710 GOSUB 2820

```

```

720 ' TERCER CUADRO
730 COLOR 2,0:CLS
740 GOSUB 2480
750 GOSUB 2740
760 LOCATE 1,1:COLOR 1,3:PRINT " O J O I Z Q U I E R D O "
770 GOSUB 2820
780 , CUARTO CUADRO
790 COLOR 2,0:CLS
800 GOSUB 2610
810 GOSUB 2740
820 LOCATE 1,1:COLOR 1,3:PRINT " O J O I Z Q U I E R D O "
830 GOSUB 2820
840 CLOSE #1
850 IF ACS=999 THEN GOTO 3060
860 GOSUB 2880
870 END
880 ' LEER DATOS
890 COLOR 1,3:CLS:LOCATE 10,17,8:COLOR 1,3:INPUT " INTRODUZA EL NUMERO DE HISTOR
I AL (LUEGO PULSE RETURN) : ",NUM$"
900 A$="SENO"
910 COD$=NUM$+A$
920 GOSUB 1680
930 OPEN "1",#1,COD$
940 INPUT #1,B$:LOCATE 9,38,8:COLOR 2,0:PRINT B$
950 INPUT #1,B$:LOCATE 11,38,8:COLOR 2,0:PRINT B$
960 INPUT #1,B$:LOCATE 9,81,8:COLOR 2,0:PRINT B$
970 INPUT #1,B$:LOCATE 11,81,8:COLOR 2,0:PRINT B$
980 INPUT #1,B$:LOCATE 14,23,8:COLOR 2,0:PRINT B$
990 INPUT #1,B$:LOCATE 18,34,8:COLOR 2,0:PRINT B$
1000 INPUT #1,B$:LOCATE 22,23,8:COLOR 2,0:PRINT B$
1010 INPUT #1,B$:LOCATE 18,10,8:COLOR 2,0:PRINT B$
1020 INPUT #1,B$:LOCATE 14,70,8:COLOR 2,0:PRINT B$
1030 INPUT #1,B$:LOCATE 18,81,8:COLOR 2,0:PRINT B$
1040 INPUT #1,B$:LOCATE 22,70,8:COLOR 2,0:PRINT B$
1050 INPUT #1,B$:LOCATE 18,57,8:COLOR 2,0:PRINT B$
1060 GOSUB 2140
1070 , PRIMER CUADRO OJO DERECHO
1080 COLOR 2,0:CLS
1090 GOSUB 2230
1100 GOSUB 2740

```

```

1110 LOCATE 1,1:COLOR 1,3:PRINT " O J O D E R E C H O "
1120 GOSUB 2980
1130 GOSUB 2140
1140 , SEGUNDO CUADRO
1150 COLOR 2,0:CLS
1160 GOSUB 2350
1170 GOSUB 2740
1180 LOCATE 1,1:COLOR 1,3:PRINT " O J O D E R E C H O "
1190 GOSUB 2980
1200 GOSUB 2140
1210 , TERCER CUADRO
1220 COLOR 2,0:CLS
1230 GOSUB 2480
1240 GOSUB 2740
1250 LOCATE 1,1:COLOR 1,3:PRINT " O J O D E R E C H O "
1260 GOSUB 2980
1270 GOSUB 2140
1280 , CUARTO CUADRO
1290 COLOR 2,0:CLS
1300 GOSUB 2610
1310 GOSUB 2740
1320 LOCATE 1,1:COLOR 1,3:PRINT " O J O D E R E C H O "
1330 GOSUB 2980
1340 GOSUB 2140
1350 , PRIMER CUADRO OJO IZQUIERDO
1360 COLOR 2,0:CLS
1370 GOSUB 2230
1380 GOSUB 2740
1390 LOCATE 1,1:COLOR 1,3:PRINT " O J O I Z Q U I E R D O "
1400 GOSUB 2980
1410 GOSUB 2140
1420 , SEGUNDO CUADRO
1430 COLOR 2,0:CLS
1440 GOSUB 2350
1450 GOSUB 2740
1460 LOCATE 1,1:COLOR 1,3:PRINT " O J O I Z Q U I E R D O "
1470 GOSUB 2980
1480 GOSUB 2140
1490 , TERCER CUADRO
1500 COLOR 2,0:CLS

```

```

1510 GOSUB 2480
1520 GOSUB 2740
1530 LOCATE 1,1:COLOR 1,3:PRINT " O J O I Z Q U I E R D O "
1540 GOSUB 2980
1550 GOSUB 2140
1560 , CUARTO CUADRO
1570 COLOR 2,0:CLS
1580 GOSUB 2610
1590 GOSUB 2740
1600 LOCATE 1,1:COLOR 1,3:PRINT " O J O I Z Q U I E R D O "
1610 GOSUB 2980
1620 CLOSE #1
1630 GOSUB 2140
1640 IF ACS=111 THEN COMMON DDD$,ACS:CHAIN "B:PPP2.BAS"
1650 GOSUB 2880
1660 END
1670 END
1680 , SUBRUTINA CUADRO DE BRACHET
1690 SCREEN 3:COLOR 2,0:CLS
1700 LOCATE 1,1,0:COLOR 1,3:PRINT " S E N O C A M E R U L A R - G O N I O S
C O P I A "
1710 LOCATE 3,41:COLOR 3,0:PRINT " NUMERO DEL SENO   4   3   2   1   0 "
1720 LOCATE 4,41:COLOR 3,0:PRINT " ANILLO DE SCHWALBE + + + + "
1730 LOCATE 5,11:COLOR 0,1:PRINT " CLASIFICACION DE BRACHET "
1740 LOCATE 5,41:COLOR 3,0:PRINT " CANAL DE SCHLEMM + + + "
1750 LOCATE 6,41:COLOR 3,0:PRINT " ESPOLON ESCLERAL + + + "
1760 LOCATE 7,41:COLOR 3,0:PRINT " BANDA CILIAR + "
1770 LOCATE 9,7:COLOR 3,0:PRINT " TENSION INTRAOCULAR    O.D.
DIAMETRO PUPILAR 0.D."
1780 LOCATE 11,14:COLOR 3,0:PRINT " (mmHg)      0.I.
m.m.)      0.I."
1790 , LOCATE 12,31:COLOR 1,3:PRINT " G O N I O S C O P I A "
1800 COLOR 2,0
1810 LINE (311,19)-(591,19),1
1820 LINE (311,29)-(591,29),1
1830 LINE (311,39)-(591,39),1
1840 LINE (311,49)-(591,49),1
1850 LINE (311,59)-(591,59),1
1860 LINE (311,69)-(591,69),1
1870 LINE (311,19)-(311,69),1

```

1880 LINE (591,19)-(591,69),1 PRINT "BANDA ENCERRADA"  
1890 LINE (471,19)-(471,69),1 PRINT "FORJON DE VIGAS"  
1900 LINE (495,19)-(495,69),1  
1910 LINE (519,19)-(519,69),1  
1920 LINE (543,19)-(543,69),1  
1930 LINE (567,19)-(567,69),1  
1940 LINE (40,74)-(360,74),1  
1950 LINE (40,114)-(360,114),1  
1960 LINE (40,74)-(40,114),1  
1970 LINE (360,74)-(360,114),1  
1980 LINE (230,74)-(230,114),1  
1990 LINE (278,74)-(278,114),1  
2000 LINE (408,74)-(704,74),1  
2010 LINE (408,114)-(704,114),1  
2020 LINE (408,74)-(408,114),1  
2030 LINE (704,74)-(704,114),1  
2040 LINE (574,74)-(574,114),1  
2050 LINE (622,74)-(622,114),1  
2060 LINE (574,94)-(704,94),1  
2070 LINE (230,94)-(360,94),1  
2080 LOCATE 18,23:COLOR 3,0:PRINT "O.D."  
2090 LOCATE 18,70:COLOR 3,0:PRINT "O.I."  
2100 CIRCLE (190,173),60,1  
2110 CIRCLE (565,173),60,1  
2120 COLOR 2,0  
2130 RETURN  
2140 ' SUBRUTINA PULSE RETURN  
2150 LOCATE 24,20:COLOR 0,0:PRINT "  
2160 LOCATE 1,1,0  
2170 COLOR 2,0  
2180 LOCATE 24,38:COLOR 0,1:PRINT " PULSE RETURN "  
2190 A\$=INKEY\$  
2200 IF A\$=CHR\$(13) THEN RETURN  
2210 GOTO 2190  
2220 RETURN  
2230 , SUBRUTINA PRIMER CUADRO "CORNEA"  
2240 LOCATE 4, 2:COLOR 3,0:PRINT "CORNEA"  
2250 LOCATE 6, 2:COLOR 3,0:PRINT "PUPILA"  
2260 LOCATE 8, 2:COLOR 3,0:PRINT "ANILLO DE SCHWALBE"

```

2270 LOCATE 10, 2:COLOR 3,0:PRINT "BANDA ESCLERAL"
2280 LOCATE 12, 2:COLOR 3,0:PRINT "PORCION DE FILTRACION"
2290 LOCATE 14, 2:COLOR 3,0:PRINT "CANAL DE SCHLEMM"
2300 LOCATE 16, 2:COLOR 3,0:PRINT "ESPOLON ESCLERAL"
2310 LOCATE 18, 2:COLOR 3,0:PRINT "BANDA CILIAR"
2320 LOCATE 20, 2:COLOR 3,0:PRINT "RAIZ DEL IRIS"
2330 LOCATE 22, 2:COLOR 3,0:PRINT "RIBETE IRIDEO DE FUCHS"
2340 RETURN
2350 , SUBRUTINA SEGUNDO CUADRO
2360 COLOR 2,0:CLS
2370 LOCATE 4, 2:COLOR 3,0:PRINT "PROCESOS IRIDEOS"
2380 LOCATE 6, 2:COLOR 3,0:PRINT "MUS. CILIAR (SOMBRA DE BUSSACA)"
2390 LOCATE 8, 2:COLOR 3,0:PRINT "TEST DE FORBES"
2400 LOCATE 10, 2:COLOR 3,0:PRINT "PROCESOS CILIARES"
2410 LOCATE 12, 2:COLOR 3,0:PRINT "VASOS (ASPECTO)"
2420 LOCATE 14, 2:COLOR 3,0:PRINT "VASOS (LOCALIZACION)"
2430 LOCATE 16, 2:COLOR 3,0:PRINT "PIGMENTACION (GRADO)"
2440 LOCATE 18, 2:COLOR 3,0:PRINT "PIGMENTACION (LOCALIZACION)"
2450 LOCATE 20, 2:COLOR 3,0:PRINT "SINUSINEQUIAS (LOCALIZACION)"
2460 LOCATE 22, 2:COLOR 3,0:PRINT "SEUDOEXFOLIACION (LOCALIZACION)"
2470 RETURN
2480 , SUBRUTINA TERCER CUADRO
2490 COLOR 2,0:CLS
2500 LOCATE 4, 2:COLOR 3,0:PRINT "TEJIDO EMBRIONARIO (LOCALIZACION)"
2510 LOCATE 6, 2:COLOR 3,0:PRINT "RECESION ANGULAR (EXTENSION)"
2520 LOCATE 8, 2:COLOR 3,0:PRINT "RECESION ANGULAR (LOCALIZACION)"
2530 LOCATE 10, 2:COLOR 3,0:PRINT "SANGRE EN CANAL DE SCHLEMM"
2540 LOCATE 12, 2:COLOR 3,0:PRINT "SANGRE EN EL ANGULO"
2550 LOCATE 14, 2:COLOR 3,0:PRINT "EXUDADOS"
2560 LOCATE 16, 2:COLOR 3,0:PRINT "MASAS DE PIGMENTO"
2570 LOCATE 18, 2:COLOR 3,0:PRINT "PRECIPITADOS QUERATICOS"
2580 LOCATE 20, 2:COLOR 3,0:PRINT "MASAS CRISTALINIANAS"
2590 LOCATE 22, 2:COLOR 3,0:PRINT "OTROS"
2600 RETURN
2610 , CUARTO CUADRO
2620 COLOR 2,0:CLS
2630 LOCATE 4, 2:COLOR 3,0:PRINT "TIPO DE CIRUGIA REALIZADA"
2640 LOCATE 6, 2:COLOR 3,0:PRINT "POSTOPERATORIO"
2650 LOCATE 8, 2:COLOR 3,0:PRINT "HALLAZGOS"
2660 LOCATE 10, 2:COLOR 3,0:PRINT "LOCALIZACION"
2670 LOCATE 12, 2:COLOR 3,0:PRINT "EXTENSION"

```

```

2680 LOCATE 14, 2:COLOR 3,0:PRINT "PROFUNDIDAD"
2690 LOCATE 16, 2:COLOR 3,0:PRINT "EDEMA"
2700 LOCATE 18, 2:COLOR 3,0:PRINT "SINEQUIAS"
2710 LOCATE 20, 2:COLOR 3,0:PRINT "OTRAS ALTERACIONES"
2720 LOCATE 22, 2:COLOR 3,0:PRINT "OTROS"
2730 RETURN
2740 ' SUBRUTINA LINEAS DE LOS CUADROS
2750 FOR A=25 TO 225 STEP 20
2760 LINE (0,A)-(799,A),1
2770 NEXT A
2780 LINE (0,25)-(0,225),1
2790 LINE (799,25)-(799,225),1
2800 LINE (265,25)-(265,225),1
2810 RETURN
2820 ' SUBRUTINA LOCALIZACION LETRAS EN LOS CUADROS
2830 B=36
2840 FOR A=4 TO 22 STEP 2
2850 LOCATE A,B:COLOR 2,0:INPUT "",B$: WRITE #1,B$
2860 NEXT A
2870 RETURN
2880 ' SUBRUTINA VOLVER MENU
2890 COLOR 1,3:CLS
2900 LOCATE 1,1,0:COLOR 3,1:PRINT " P U L S E L A O P C I O N D E S E A D
2910 LOCATE 7,21,0:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESION (DIBUJO GONIOSCOPI
O)"
2920 LOCATE 11,21,0:COLOR 1,3:PRINT " 2 - VOLVER AL MENU PRINCIPAL"
2930 A$=INKEY$
2940 IF A$="1" THEN CHAIN "B:PPP1.BAS"
2950 IF A$="2" THEN CHAIN "B:MENU.BAS",400
2960 GOTO 2930
2970 RETURN
2980 ' SUBRUTINA ESCRIBIR DESDE EL FICHERO LOS DATOS
2990 B=36 :A=2
3000 A=A+2
3010 INPUT #1,B$:LOCATE A,B:COLOR 2,0:PRINT B$
3020 IF A=22 THEN RETURN
3030 GOTO 3000
3040 RETURN
3050 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"SENO":OPEN "O",#1,COD$:GOSUB 168
0:GOTO 200
3060 COMMON ACS,NUM$:CHAIN "B:PPP1.BAS"

```

## S U B P R O G R A M A : 19

```

10 IF ACS=999 THEN GOTO 1980
20 IF ACS=111 THEN NUM$=DDD$:GOTO 680
30 SCREEN 3:COLOR 2,0:CLS
40 GOSUB 1910
50 A$=INKEY$
60 IF A$="1" THEN GOTO 100
70 IF A$="2" THEN GOTO 660
80 IF A$="3" THEN CHAIN "B:MENU.BAS",400
90 GOTO 50
100 COLOR 3,1:CLS:LOCATE 10,17,0:INPUT "INTRODUCIR EL NUMERO DE REFERENCIA (LUEGO
PULSE RETURN) :",NUM$
110 COLOR 2,0:CLS
120 GOSUB 1170
130 COD$=NUM$+"LAS1"
140 OPEN "O",#1,COD$
150 A=24
160 FOR B=4 TO 22 STEP 2
170 LOCATE B,A,8:COLOR 2,0:INPUT "",B$ :WRITE #1,B$
180 NEXT
190 ' 2 CUADRO
200 COLOR 2,0:CLS:GOSUB 1320
210 LOCATE 6,22,8:COLOR 2,0:INPUT "",B$ :WRITE #1,B$
220 FOR A= 18 TO 86 STEP 16:LOCATE 10,A,8:COLOR 2,0:INPUT "",B$ :WRITE #1,B$ :NEXT
230 FOR A= 18 TO 86 STEP 16:LOCATE 12,A,8:COLOR 2,0:INPUT "",B$ :WRITE #1,B$ :NEXT
240 FOR A= 18 TO 86 STEP 16:LOCATE 14,A,8:COLOR 2,0:INPUT "",B$ :WRITE #1,B$ :NEXT
250 FOR A= 18 TO 86 STEP 16:LOCATE 16,A,8:COLOR 2,0:INPUT "",B$ :WRITE #1,B$ :NEXT
260 LOCATE 18,22,8:COLOR 2,0:INPUT "",B$ :WRITE #1,B$
270 CLOSE
280 ' 3 CUADRO
290 IF ACS=999 THEN GOTO 1990
300 COLOR 2,0:CLS:GOSUB 1500
310 COD$=NUM$+"LAS2"
320 OPEN "O",#1,COD$
330 LOCATE 24,10,0:COLOR 3,1:PRINT " INTRODUCIR DATOS DEL CUADRO IZQUIERDO (PULSA
E "0" PARA CAMBIO DE CUADRO) "

```

```

340 LOCATE 1,9,0:COLOR 1,3:PRINT " COMPLICACIONES "
350 B$=INKEY$"
360 IF B$="1" THEN LOCATE 3,9,0:COLOR 2,1:PRINT " 1 - DESVIACION PUPILAR " :WRITE
#1,B$:GOTO 450
370 IF B$="2" THEN LOCATE 5,9,0:COLOR 2,1:PRINT " 2 - TYNDALL " :WRITE #1,B$:GOT
0 450
380 IF B$="3" THEN LOCATE 7,9,0:COLOR 2,1:PRINT " 3 - REACCION CILIAR " :WRITE #
1,B$:GOTO 450
390 IF B$="4" THEN LOCATE 9,9,0:COLOR 2,1:PRINT " 4 - AUMENTO P.I.O. " :WRITE #1,
B$:GOTO 450
400 IF B$="5" THEN LOCATE 11,9,0:COLOR 2,1:PRINT " 5 - HEMORRAGIA " :WRITE #1,B$:
GOTO 450
410 IF B$="6" THEN LOCATE 13,9,0:COLOR 2,1:PRINT " 6 - AFECT. CORNEAL SUPERFICIA
L " :WRITE #1,B$:GOTO 450
420 IF B$="7" THEN LOCATE 15,9,0:COLOR 2,1:PRINT " 7 - AFECT. CORNEAL PROFUNDA "
:WRITE #1,B$:GOTO 450
430 IF B$="8" THEN LOCATE 17,9,0:COLOR 2,1:PRINT " 8 - ROTURAS DESCemet " :WRITE
#1,B$:GOTO 450
440 IF B$="0" THEN WRITE #1,B$:GOTO 460
450 GOTO 350
460 LOCATE 24,10,0:COLOR 0,0:PRINT "

```

" 42 "

```

470 LOCATE 24,10,0:COLOR 3,1:PRINT " INTRODUCIR DATOS DEL CUADRO DERECHO (PULSE
"0" PARA CAMBIO DE PAGINA)"
480 LOCATE 1,59,0:COLOR 1,3:PRINT " COMPLICACIONES "
490 A=0
500 B$=INKEY$"
510 IF B$="1" THEN LOCATE 3,59,0:COLOR 2,1:PRINT " 1 - AFECT. CRISTALINAS " :
WRITE #1,B$:GOTO 600
520 IF B$="2" THEN LOCATE 5,59,0:COLOR 2,1:PRINT " 2 - AFECTACION L.I.O. " :WRITE
#1,B$:GOTO 600
530 IF B$="3" THEN LOCATE 7,59,0:COLOR 2,1:PRINT " 3 - REACCION VITREA " :WRITE #
1,B$:GOTO 600
540 IF B$="4" THEN LOCATE 9,59,0:COLOR 2,1:PRINT " 4 - ROTURA DE HALOIDES " :WRIT
TE #1,B$:GOTO 600
550 IF B$="5" THEN LOCATE 11,59,0:COLOR 2,1:PRINT " 5 - VITREO EN C. ANTERIOR " :
WRITE #1,B$:GOTO 600
560 IF B$="6" THEN LOCATE 13,59,0:COLOR 2,1:PRINT " 6 - BLOQUEO PUPILLAR POR VITR
EO " :WRITE #1,B$:GOTO 600
570 IF B$="7" THEN LOCATE 15,59,0:COLOR 2,1:PRINT " 7 - AFECT. RETINIANA " :WRITE
#1,B$:GOTO 600

```

```

580 IF B$="8" THEN LOCATE 17,59,0:COLOR 2,1:A=A+1:PRINT " 8 - OTRAS COMPLICACION
ES ":"WRITE #1,B$:GOTO 610
590 IF B$="0" THEN WRITE #1,B$:GOTO 630
600 GOTO 500
610 IF A=1 THEN LOCATE 19,2,0:COLOR 2,1:PRINT " OTRA COMPLICACION ":LOCATE 19,25
'8:INPUT "",B$:WRITE #1,B$:GOTO 600
620 IF A=2 THEN LOCATE 21,2,0:COLOR 2,1:PRINT " OTRA COMPLICACION ":LOCATE 21,25
'8:INPUT "",B$:WRITE #1,B$:A=A+1:GOTO 600
630 CLOSE
640 IF ACS=999 THEN GOTO 2000
650 GOSUB 1720
660 , LEER
670 COLOR 1,3:CLS:LOCATE 10,17,0:INPUT " INTRODUCIR EL NUMERO DE REFERENCIA (LUEGO
PULSE RETURN) ":"NUM$"
680 COD$=NUM$+"LAS1"
690 OPEN "I",#1,COD$
700 COLOR 2,0:CLS
710 GOSUB 1170
720 A=24
730 FOR B=4 TO 22 STEP 2
740 INPUT #1,B$:LOCATE B,A,8:COLOR 2,0:PRINT B$
750 NEXT
760 GOSUB 1830
770 , 2 CUADRO
780 COLOR 2,0:CLS:GOSUB 1320
790 INPUT #1,B$:LOCATE 6,22,8:COLOR 2,0:PRINT B$
800 FOR A= 18 TO 86 STEP 16:INPUT #1,B$:LOCATE 10,A,8:COLOR 2,0:PRINT B$: NEXT'
810 FOR A= 18 TO 86 STEP 16:INPUT #1,B$:LOCATE 12,A,8:COLOR 2,0:PRINT B$:NEXT
820 FOR A= 18 TO 86 STEP 16:INPUT #1,B$:LOCATE 14,A,8:COLOR 2,0:PRINT B$:NEXT
830 FOR A= 18 TO 86 STEP 16:INPUT #1,B$:LOCATE 16,A,8:COLOR 2,0:PRINT B$:NEXT
840 INPUT #1,B$:LOCATE 18,22,8:COLOR 2,0:PRINT B$
850 CLOSE
860 GOSUB 1830
870 , 3 CUADRO
880 COLOR 2,0:CLS:GOSUB 1500
890 COD$=NUM$+"LAS2"
900 OPEN "I",#1,COD$
910 LOCATE 1,2,0:COLOR 1,3:PRINT " COMPLICACIONES "
920 INPUT #1,B$
930 IF B$="1" THEN LOCATE 3,9,0:COLOR 2,1:PRINT " 1 - DESVIACION PUPILAR " : GOTO

```

```

920 IF B$="2" THEN LOCATE 5,9,0:COLOR 2,1:PRINT " 2 - TYNDALL " : GOTO 920
950 IF B$="3" THEN LOCATE 7,9,0:COLOR 2,1:PRINT " 3 - REACCION CILIAR " : GOTO 9
20
960 IF B$="4" THEN LOCATE 9,9,0:COLOR 2,1:PRINT " 4 - AUMENTO P.I.O. " : GOTO 920
970 IF B$="5" THEN LOCATE 11,9,0:COLOR 2,1:PRINT " 5 - HEMORRAGIA " : GOTO 920
980 IF B$="6" THEN LOCATE 13,9,0:COLOR 2,1:PRINT " 6 - AFECT. CORNEAL SUPERFICIA
L " : GOTO 920
990 IF B$="7" THEN LOCATE 15,9,0:COLOR 2,1:PRINT " 7 - AFECT. CORNEAL PROFUNDA "
: GOTO 920
1000 IF B$="8" THEN LOCATE 17,9,0:COLOR 2,1:PRINT " 8 - ROTURAS DESCERMET " : GOTO
920
1010 IF B$="0" THEN GOTO 1500
1020 A=0
1030 INPUT #1,B$
1040 IF B$="1" THEN LOCATE 3,59,0:COLOR 2,1:PRINT " 1 - AFECT. CRISTALINIANAS "
: GOTO 1030
1050 IF B$="2" THEN LOCATE 5,59,0:COLOR 2,1:PRINT " 2 - AFECTACION L.I.O. " : GOT
0 1030
1060 IF B$="3" THEN LOCATE 7,59,0:COLOR 2,1:PRINT " 3 - REACCION VITREA " : GOTO 1
030
1070 IF B$="4" THEN LOCATE 9,59,0:COLOR 2,1:PRINT " 4 - ROTURA DE HALOIDES " : GO
TO 1030
1080 IF B$="5" THEN LOCATE 11,59,0:COLOR 2,1:PRINT " 5 - VITREO EN C. ANTERIOR "
: GOTO 1030
1090 IF B$="6" THEN LOCATE 13,59,0:COLOR 2,1:PRINT " 6 - BLOQUEO PUPILAR POR VIT
REO " : GOTO 1030
1100 IF B$="7" THEN LOCATE 15,59,0:COLOR 2,1:PRINT " 7 - AFECT. RETINIANA " : GOTO
1030
1110 IF B$="8" THEN LOCATE 17,59,0:COLOR 2,1:A=A+1:PRINT " 8 - OTRAS COMPLICACIO
NES " : GOTO 1130
1120 IF B$="0" THEN CLOSE:GOSUB 1830:GOSUB 1720
1130 INPUT #1,B$
1140 IF A=1 THEN LOCATE 19,2,0:COLOR 2,1:PRINT " OTRA COMPLICACION " : LOCATE 19,2
5,8:PRINT B$:GOTO 1030
1150 IF A=2 THEN LOCATE 21,2,0:COLOR 2,1:PRINT " OTRA COMPLICACION " : LOCATE 21,2
5,8:PRINT B$:GOTO 1030
1160 LOCATE 1,10,8:END
1170 ' 1 CUADRO
1180 LOCATE 4,2,0:COLOR 3,0:PRINT "DIAGNOSTICO"

```

```

1190 LOCATE 6,2,0:COLOR 3,0:PRINT "OJO"
1200 LOCATE 8,2,0:COLOR 3,0:PRINT "EDAD"
1210 LOCATE 10,2,0:COLOR 3,0:PRINT "FECHA"
1220 LOCATE 12,2,0:COLOR 3,0:PRINT "TECNICO"
1230 LOCATE 14,2,0:COLOR 3,0:PRINT "TIPO DE LASER"
1240 LOCATE 16,2,0:COLOR 3,0:PRINT "LENTE DE APLICACION"
1250 LOCATE 18,2,0:COLOR 3,0:PRINT "ZONA DE APLICACION"
1260 LOCATE 20,2,0:COLOR 3,0:PRINT "OTRO DATO"
1270 LOCATE 22,2,0:COLOR 3,0:PRINT "OTRO DATO"
1280 FOR A=23 TO 223 STEP 20:LINE (0,A)-(799,A),1:NEXT
1290 LINE (0,23)-(0,223),1:LINE (799,23)-(799,223),1
1300 LINE (170,23)-(170,223),1
1310 RETURN
1320 '2 CUADRO
1330 LOCATE 6,2,0:COLOR 3,0:PRINT "TTO. PREPARATORIO"
1340 LOCATE 8,2,0:COLOR 3,0:PRINT "PARA. APLI."
1350 LOCATE 10,2,0:COLOR 3,0:PRINT "1 SESSION"
1360 LOCATE 12,2,0:COLOR 3,0:PRINT "2 SESSION"
1370 LOCATE 14,2,0:COLOR 3,0:PRINT "3 SESSION"
1380 LOCATE 16,2,0:COLOR 3,0:PRINT "4 SESSION"
1390 LOCATE 18,2,0:COLOR 3,0:PRINT "TTO. POSTERIOR"
1400 LOCATE 8,16,0:COLOR 3,0:PRINT "N. TOTAL"
1410 LOCATE 8,32,0:COLOR 3,0:PRINT "N. EFICAZ"
1420 LOCATE 8,48,0:COLOR 3,0:PRINT "POTENCIA"
1430 LOCATE 8,64,0:COLOR 3,0:PRINT "TAMANO"
1440 LOCATE 8,80,0:COLOR 3,0:PRINT "TIEMPO"
1450 FOR A=43 TO 183 STEP 20:LINE (0,A)-(799,A),1:NEXT
1460 LINE (0,43)-(0,183),1:LINE (799,43)-(799,183),1
1470 LINE (243,63)-(243,163),1:LINE (379,63)-(379,163),1
1480 LINE (631,63)-(631,163),1:LINE (123,63)-(123,163),1
1490 RETURN
1500 '3 CUADRO
1510 LOCATE 3,9,0:COLOR 2,0:PRINT "1 - DESVIACION PUPILAR"
1520 LOCATE 5,9,0:COLOR 2,0:PRINT "2 - TYNDALL"
1530 LOCATE 7,9,0:COLOR 2,0:PRINT "3 - REACCION CILIAR"
1540 LOCATE 9,9,0:COLOR 2,0:PRINT "4 - AUMENTO P.I.O."
1550 LOCATE 11,9,0:COLOR 2,0:PRINT "5 - HEMORRAGIA"
1560 LOCATE 13,9,0:COLOR 2,0:PRINT "6 - AFECT. CORNEAL SUPERFICIAL"
1570 LOCATE 15,9,0:COLOR 2,0:PRINT "7 - AFECT. CORNEAL PROFUNDA"

```

```

1580 LOCATE 17,9,0:COLOR 2,0:PRINT " 8 - ROTURAS DESCMET "
1590 'LOCATE 1,59,0:COLOR 1,3:PRINT " C O M P L I C A C I O N E S "
1600 LOCATE 3,59,0:COLOR 2,0:PRINT " 1 - AFECT. CRISTALINIANAS "
1610 LOCATE 5,59,0:COLOR 2,0:PRINT " 2 - AFECTACION L.I.O. "
1620 LOCATE 7,59,0:COLOR 2,0:PRINT " 3 - REACCION VITREA "
1630 LOCATE 9,59,0:COLOR 2,0:PRINT " 4 - ROTURA DE HALOIDES "
1640 LOCATE 11,59,0:COLOR 2,0:PRINT " 5 - VITREO EN C. ANTERIOR "
1650 LOCATE 13,59,0:COLOR 2,0:PRINT " 6 - BLOQUEO PUPILLAR POR VITREO "
1660 LOCATE 15,59,0:COLOR 2,0:PRINT " 7 - AFECT. RETINIANA "
1670 LOCATE 17,59,0:COLOR 2,0:PRINT " 8 - OTRAS COMPLICACIONES "
1680 FOR A=13 TO 213 STEP 20:LINE (0,A)-(799,A),1:NEXT
1690 LINE (0,13)-(0,213),1:LINE (799,13)-(799,213),1
1700 LINE (399,13)-(399,173),1
1710 LOCATE 1,19,8:COLOR 2,0:RETURN
1720 , CAMBIO PROGRAMA
1730 COLOR 0,3:CLS
1740 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
1750 LOCATE 4,15,0:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A"
1760 LOCATE 7,20:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
1770 LOCATE 9,20:COLOR 1,3:PRINT " 2 - VOLVER AL MENU"
1780 A$=INKEY$
1790 IF A$="1" THEN CHAIN "B:TIT.BAS"
1800 IF A$="2" THEN CHAIN "B:MENU.BAS",400
1810 GOTO 1780
1820 , PULSE RETURN
1830 LOCATE 24,40,0:COLOR 2,1:PRINT " PULSE RETURN "
1840 A$=INKEY$
1850 IF A$=CHR$(13) THEN GOTO 1870
1860 GOTO 1840
1870 LOCATE 24,40,0:COLOR 2,0:PRINT "
1880 , TIEMPO
1890 FOR TP=1 TO 100:NEXT
1900 RETURN
1910 COLOR 0,3:CLS
1920 LOCATE 1,1,0 :COLOR 3,1:PRINT " L A S E R "
1930 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E L A O P C I O N E L E G I D
A"
1940 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS "
1950 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS "

```

```
1960 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL "
1970 RETURN
1980 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"LAS1":OPEN "O",#1,COD$:COLOR 2,0
:CLS:GOSUB 1170:GOTO 150
1990 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"LAS2":OPEN "O",#1,COD$:COLOR 2,0
:CLS:GOSUB 1500:GOTO 330
2000 COMMON ACS,NUM$:CHAIN "B:TTT.BAS"
```

```

10 DIM AA(150),X(150),Y(150),YY(150),SX(150),SY(150)
20 LOCATE 24, 5:COLOR 4,7:INPUT " ",L
30 LOCATE 24, 5:COLOR 4,7:PRINT " ESTA SEGURO (S/N) "
40 A$=INKEY$
50 IF A$="S" THEN GOTO 80
60 IF A$="N" THEN GOTO 20
70 GOTO 40
80 ' PONER APERTURA DEL FICHERO SEGUN EL GRADO
90 IF L=0 THEN OPEN "I",#1,"B:0GR":GOTO 220
100 IF L=15 THEN OPEN "I",#1,"B:15GR":GOTO 220
110 IF L=30 THEN OPEN "I",#1,"B:30GR":GOTO 220
120 IF L=45 THEN OPEN "I",#1,"B:45GR":GOTO 220
130 IF L=60 THEN OPEN "I",#1,"B:60GR":GOTO 220
140 IF L=75 THEN OPEN "I",#1,"B:75GR":GOTO 220
150 IF L=90 THEN OPEN "I",#1,"B:90GR":GOTO 220
160 IF L=105 THEN OPEN "I",#1,"B:105GR":GOTO 220
170 IF L=120 THEN OPEN "I",#1,"B:120GR":GOTO 220
180 IF L=135 THEN OPEN "I",#1,"B:135GR":GOTO 220
190 IF L=150 THEN OPEN "I",#1,"B:150GR":GOTO 220
200 IF L=165 THEN OPEN "I",#1,"B:165GR":GOTO 220
210 IF L<>15 OR L<>30 OR L<>45 OR L<>60 OR L<>90 OR L<>105 OR L<>120 OR L<>135 OR L<>150 OR L<>165 THEN GOTO 20
220 LOCATE 24, 5:COLOR 4,7:PRINT " COLOR ESCOTOMA "
230 A$=INKEY$
240 IF A$="M" THEN QQ=6 :GOTO 290
250 IF A$="A" THEN QQ=1 :GOTO 290
260 IF A$="R" THEN QQ=4 :GOTO 290
270 IF A$="V" THEN QQ=2 :GOTO 290
280 GOTO 230
290 IF L=0 THEN GOTO 840
300 IF L=90 THEN GOTO 950
310 IF L=15 OR L=30 OR L=45 OR L=60 OR L=75 THEN GOTO 1350
320 IF L=105 OR L=120 OR L=135 OR L=150 OR L=165 THEN GOTO 1890
330 GOTO 290
340 LOCATE 24, 5:COLOR 4,7:PRINT " OPERANDO "

```

```

350 COLOR 2,0:I=0:M=400:B=1
360 FOR F=1 TO M
370 IF EOF(1) THEN GOTO 420
380 INPUT #1,R,J
390 PSET(R-1,J-1),7:AA(B)=POINT(R,J)
400 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)=5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
410 NEXT F
420 IF CONTA=2 THEN GOTO 470
430 CLOSE
440 CONTA=2
450 GOTO 80
460 GOTO 470
470 GOSUB 780
480 SCREEN 1:COLOR 0,8:CLS
490 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "
500 LINE (41,194)-(311,194),4
510 LINE (41,50)-(311,50),4
520 LINE (41,50)-(41,194),4
530 LINE (311,50)-(311,194),4
540 I=0
550 I=I+1
560 IF X(I)=0 THEN GOTO 640
570 IF AA(I)=14 THEN AA(I)=QQQ
580 IF AA(I)=6 THEN YY(I)=170:GOTO 550
590 IF AA(I)=1 THEN YY(I)=146:GOTO 550
600 IF AA(I)=4 THEN YY(I)=122:GOTO 550
610 IF AA(I)=2 THEN YY(I)=98:GOTO 550
620 IF AA(I)=0 THEN YY(I)=180:GOTO 550
630 IF AA(I)=5 THEN YY(I)=74:GOTO 550
640 FOR Z=1 TO I-2
650 IF X(Z)=0 OR X(Z+1)=0 THEN GOTO 680
660 LINE(X(Z),YY(Z))-(X(Z+1),YY(Z+1)),4
670 NEXT Z
680 LINE(41,YY(1))-(X(1),YY(1)),4
690 LINE(X(Z+1),YY(Z+1))-(311,YY(Z+1)),4
700 PAINT (42,54),0,4
710 PAINT (12,14),7,4
720 LOCATE 24,5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
730 A$=INKEY$

```

```

740 IF A$="S" THEN GOTO 770
750 IF A$="N" THEN CHAIN "B:MENU.BAS"
760 GOTO 730
770 CHAIN "B:QQQ.BAS",13000
780 , CALCULAR EL ERROR
790 FOR F=0 TO B
800 R(F)=(SQR(X(F)^2+Y(F)^2))*(1- COS((L/180)*3.141593))
810 NEXT F
820 RETURN
830 END
840 , GRADO 0
850 LOCATE 24, 5:COLOR 4,7:PRINT "          "
860 COLOR 2,0:I=0:M=400:B=1
870 FOR F=1 TO M
880 IF EOF(1) THEN GOTO 930
890 INPUT #1,R,J
900 PSET(R-1,J-1),7:AA(B)=POINT(R,J)
910 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)=
5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
920 NEXT F
930 CLOSE
940 GOTO 480
950 , 90 GRADOS
960 LOCATE 24, 5:COLOR 4,7:PRINT "          "
970 COLOR 2,0:I=0:M=400:B=1
980 FOR F=1 TO M
990 IF EOF(1) THEN GOTO 1040
1000 INPUT #1,R,J
1010 PSET(R-1,J-1),7:AA(B)=POINT(R,J)
1020 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)=
5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
1030 NEXT F
1040 CLOSE
1050 SCREEN 1:COLOR 0,8:CLS
1060 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "
1070 LINE (41,194)-(311,194),4
1080 LINE (41, 50)-(311, 50),4
1090 LINE (41, 50)-(-41,194),4
1100 LINE (311,50)-(311,194),4
1110 I=0

```

```

1120 I=I+1
1130 IF X(I)=0 THEN GOTO 1210
1140 IF AA(I)=14 THEN AA(I)=0:GOTO 1120
1150 IF AA(I)=6 THEN YY(I)=170:GOTO 1120
1160 IF AA(I)=1 THEN YY(I)=146:GOTO 1120
1170 IF AA(I)=4 THEN YY(I)=122:GOTO 1120
1180 IF AA(I)=2 THEN YY(I)=98:GOTO 1120
1190 IF AA(I)=0 THEN YY(I)=180:GOTO 1120
1200 IF AA(I)=5 THEN YY(I)=74 :GOTO 1120
1210 FOR Z=1 TO I-2
1220 IF X(Z)=0 OR X(Z+1)=0 THEN GOTO 680
1230 LINE(Y(Z)+56,YY(Z))-(Y(Z+1)+56,YY(Z+1)),4
1240 NEXT Z
1250 LINE(41,YY(1))-(Y(1)+56,YY(1)),4
1260 LINE(Y(I-1)+56,YY(I-1))-(311,YY(I-1)),4
1270 PAINT (42,54),0,4
1280 PAINT (12,14),7,4
1290 LOCATE 24, 5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
1300 A$=INKEY$
1310 IF A$="S" THEN GOTO 1340
1320 IF A$="N" THEN CHAIN "B:MENU.BAS"
1330 GOTO 1300
1340 CHAIN "B:QQQ.BAS",13000
1350 ,MENOS DE 90 Y MAS DE 0
1360 LOCATE 24, 5:COLOR 4,7:PRINT "
1370 COLOR 2,0:1=0:M=400:B=1
1380 F=F+1
1390 IF EOF(1) THEN GOTO 1480
1400 INPUT #1,R,J
1410 PSET(R+1,J-1),7:AA(B)=POINT(R,J)
1420 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)
=5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
1430 AA(B)=POINT(R,J-1)
1440 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)
=5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
1450 AA(B)=POINT(R+1,J)
1460 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)
=5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
1470 GOTO 1380
1480 CLOSE

```

```

1490 GOTO 1790
1500 SCREEN 1:COLOR 0,8:CLS
1510 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "
1520 LINE (41,194)-(311,194),4
1530 LINE (41,50)-(311,50),4
1540 LINE (41,50)-(-41,194),4
1550 LINE (311,50)-(-311,194),4
1560 I=0
1570 I=I+1
1580 IF X(I)=0 THEN GOTO 1660
1590 IF AA(I)=14 THEN AA(I)=QQQ
1600 IF AA(I)=6 THEN YY(I)=170:GOTO 1570
1610 IF AA(I)=1 THEN YY(I)=146:GOTO 1570
1620 IF AA(I)=4 THEN YY(I)=122:GOTO 1570
1630 IF AA(I)=2 THEN YY(I)=98:GOTO 1570
1640 IF AA(I)=0 THEN YY(I)=180:GOTO 1570
1650 IF AA(I)=5 THEN YY(I)=74 :GOTO 1570
1660 FOR Z=1 TO I-2
1670 LINE(X(Z)+SX(Z),YY(Z))-(X(Z+1)+SX(Z+1),YY(Z+1)),4
1680 NEXT Z
1690 LINE(41,YY(1))-(X(1)+SX(1),YY(1)),4
1700 LINE(X(I-1)+SX(I-1),YY(I-1))-(311,YY(I-1)),4
1710 PAINT (42,54),0,4
1720 PAINT (12,14),7,4
1730 LOCATE 24,5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
1740 A$=INKEY$
1750 IF A$="S" THEN GOTO 1780
1760 IF A$="N" THEN CHAIN "B:MENU.BAS"
1770 GOTO 1740
1780 CHAIN "B:QQQ.BAS",13000
1790 P=1
1800 IF P=B THEN GOTO 1500
1810 IF Y(P)<120 THEN GOTO 1830
1820 IF Y(P)>120 THEN GOTO 1860
1830 A=X(P)-176:B=120-Y(P):SY(P)=B
1840 R=INT(SQR(A^2+B^2)):SX(P)=R-A
1850 P=P+1:GOTO 1800
1860 A=176-X(P):B=Y(P)-120:SY(P)=-B
1870 R=INT(SQR(A^2+B^2)):SX(P)=A-R
1880 P=P+1:GOTO 1800

```

```

1890 ' MAS DE 90
1900 LOCATE 24, 5:COLOR 4,7:PRINT " OPERANDO "
1910 COLOR 2,0:I=0:M=400:B=1
1920 F=F+1
1930 IF EOF(1) THEN GOTO 2020
1940 INPUT #1,R,J
1950 PSET(R-1,J-1),7:AA(B)=POINT(R,J)
1960 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)
=5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
1970 AA(B)=POINT(R,J-1)
1980 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)
=5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
1990 AA(B)=POINT(R-1,J)
2000 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)
=5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
2010 GOTO 1920
2020 CLOSE
2030 GOTO 2330
2040 SCREEN 1:COLOR 0,8:CLS
2050 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "
2060 LINE (41,194)-(311,194),4
2070 LINE (41, 50)-(311, 50),4
2080 LINE (41, 50)-(-41,194),4
2090 LINE (311,50)-(311,194),4
2100 I=0
2110 I=I+1
2120 IF X(I)=0 THEN GOTO 2200
2130 IF AA(I)=14 THEN AA(I)=QQQ
2140 IF AA(I)=6 THEN YY(I)=170:GOTO 2110
2150 IF AA(I)=1 THEN YY(I)=146:GOTO 2110
2160 IF AA(I)=4 THEN YY(I)=122:GOTO 2110
2170 IF AA(I)=2 THEN YY(I)= 98:GOTO 2110
2180 IF AA(I)=0 THEN YY(I)=180:GOTO 2110
2190 IF AA(I)=5 THEN YY(I)=74 :GOTO 2110
2200 FOR Z=1 TO I-2
2210 LINE(X(Z)+SX(Z),YY(Z))-(X(Z+1)+SX(Z+1),YY(Z+1)),4
2220 NEXT Z
2230 LINE(41,YY(1))-(X(1)+SX(1),YY(1)),4
2240 LINE(X(I-1)+SX(I-1),YY(I-1))-(311,YY(I-1)),4
2250 PAINT (42,54),0,4

```

```

2260 PAINT (12,14),7,4
2270 LOCATE 24, 5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
2280 A$=INKEY$
2290 IF A$="S" THEN GOTO 2320
2300 IF A$="N" THEN CHAIN "B:MENU.BAS"
2310 GOTO 2280
2320 CHAIN "B:QQQ.BAS",13000
2330 P=1
2340 IF P=B THEN GOTO 2040
2350 IF Y(P)<120 THEN GOTO 2370
2360 IF Y(P)>120 THEN GOTO 2400
2370 A=176-X(P):B=120-Y(P):SY(P)=B
2380 R=INT(SQR(A^2+B^2)):SX(P)=A-R
2390 P=P+1:GOTO 2340
2400 A=X(P)-176:B=Y(P)-120:SY(P)=-B
2410 R=INT(SQR(A^2+B^2)):SX(P)=R-A
2420 P=P+1:GOTO 2340

```

```

10 ' datos demograficos
20 COLOR 2,0:CLS:SCREEN 3
30 COLOR 1,3:CLS:SCREEN 3
40 LOCATE 1,1:COLOR 3,1:PRINT " DATOS DEMOGRAFICOS "
50 LOCATE 4,15:COLOR 0,3:PRINT " PULSELACION ELEGIDA "
60 LOCATE 7,20 :COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS"
70 LOCATE 9,20 :COLOR 1,3:PRINT " 2 - LEER DATOS"
80 LOCATE 11,20 :COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL"
90 A$=INKEY$
100 IF A$="1" THEN GOTO 140
110 IF A$="2" THEN GOTO 410
120 IF A$="3" THEN CHAIN "B:MENU.BAS",400
130 GOTO 90
140 COLOR 3,1:CLS:LOCATE 10,17:INPUT "INTRODUZCA EL NUMERO DE HISTORIAL (LUEGO P
ULSE RETURN) : ",NUM$"
150 IF ACS=999 THEN GOSUB 30000 :GOTO 370
160 SCREEN 3:COLOR 2,0:CLS
170 GOSUB 50000
180 LOCATE 24,38:COLOR 0,1:PRINT " INTRODUZCA LOS DATOS (LUEGO PULSE RETURN)
190 COLOR 2,0
200 LOCATE 3,22:PRINT NUM$
210 COD$=NUM$+"DEMO"
220 OPEN "O",#1,COD$ :WRITE #1,NUM$
230 FOR A=5 TO 19 STEP 2
240 B=22
250 LOCATE A,B :INPUT "",B$
260 WRITE #1,B$
270 IF A=19 GOTO 290
280 NEXT A
290 FOR A=3 TO 19 STEP 2
300 B=69
310 LOCATE A,B :INPUT "",B$
320 WRITE #1,B$
330 IF A=19 THEN GOTO 350
340 NEXT A

```

```

350 LOCATE 21,11:INPUT "",B$ :WRITE #1,B$  

360 LOCATE 24,15:COLOR 0,0:PRINT "  

  

370 LOCATE 24,34:COLOR 1,3:PRINT " ESPERE UN MOMENTO "  

380 CLOSE  

390 IF ACS=999 THEN GOTO 970  

400 GOSUB 700  

410 ' LEER DATOS  

420 CLS:LOCATE 10,17:INPUT " INTRODUZCA EL NUMERO DE HISTORIAL (LUEGO PULSE RETUR  

N) ":"NUM$  

430 COLOR 2,0:CLS  

440 GOSUB 50000  

450 LOCATE 24,15:COLOR 0,0:PRINT "  

460 IF ACS=111 THEN GOTO 1410  

470 LOCATE 3,22:PRINT NUM$  

480 COD$=NUM$+"DEMO"  

490 OPEN "I",#1,COD$  

500 FOR A=5 TO 19 STEP 2  

510 B=22 :INPUT #1,B$  

520 LOCATE A,B :PRINT B$  

530 IF A=19 GOTO 550  

540 NEXT A  

550 FOR A=3 TO 19 STEP 2  

560 B=69 :INPUT #1,B$  

570 LOCATE A,B :PRINT B$  

580 IF A=19 THEN GOTO 600  

590 NEXT A  

600 INPUT #1,B$:LOCATE 21,11:PRINT B$  

610 LOCATE 24,15:COLOR 0,0:PRINT "  

  

620 CLOSE #1  

630 LOCATE 24,15:COLOR 0,0:PRINT "  

  

640 LOCATE 24,36:COLOR 1,3:PRINT " PULSE RETURN "  

650 A$=INKEY$  

660 IF A$=CHR$(13) THEN GOTO 680  

670 GOTO 650  

680 GOSUB 700  

690 END

```

```

700 ' SUBRUTINA VOLVER MENU
710 CLS:SCREEN 3:COLOR 1,3:CLS
720 LOCATE 1,1:COLOR 3,1:PRINT " P U L S E L A O P C I O N D E S E A D A "
730 LOCATE 7,21:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
740 LOCATE 11,21:COLOR 1,3:PRINT " 2 - VOLVER AL MENU PRINCIPAL "
750 A$=INKEY$
760 IF A$="1" THEN CHAIN "B:DDD.BAS"
770 IF A$="2" THEN CHAIN "B:MENU.BAS",400
780 GOTO 750
790 RETURN
800 SCREEN 3:COLOR 2,0:CLS:GOSUB 50000:LOCATE 24,38:COLOR 0,1:PRINT " INTRODUZCA
LOS DATOS (LUEGO PULSE RETURN) ";COLOR 2,0
810 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1)
820 COD$=NU$+"DEMO"
830 OPEN "O",#1,COD$
840 LOCATE 3,22:PRINT NUM$:WRITE #1,NUM$
850 LOCATE 5,22:PRINT DATE$:WRITE #1,DATE$
860 LOCATE 7,22:PRINT NOMBRE$:WRITE #1,NOMBRE$
870 LOCATE 9,22:PRINT APELL1$:WRITE #1,APELL1$
880 LOCATE 11,22:PRINT APELL2$:WRITE #1,APELL2$
890 LOCATE 13,22:INPUT "",B$:WRITE #1,B$
900 LOCATE 15,22:INPUT "",B$:WRITE #1,B$
910 LOCATE 17,22:INPUT "",B$:WRITE #1,B$
920 LOCATE 19,22:INPUT "",B$:WRITE #1,B$
930 FOR I=3 TO 19 STEP 2:LOCATE I,69,8:INPUT "",B$:WRITE #1,B$:NEXT
940 LOCATE 21,11:INPUT "",B$:WRITE #1,B$
950 LOCATE 24,15:COLOR 0,0:PRINT ""
960 RETURN
970 COMMON ACS,NUM$:CHAIN "B:DDD.BAS",90
980 A=0
990 RETURN
1000 ' SUBRUTINA CUADRO DATOS DEMOGRAFICOS
1010 LOCATE 1,1,8:COLOR 2,0:SCREEN 3:CLS
1020 COLOR 1,3:PRINT " D A T O S D E M O G R A F I C O S "
1030 LINE (0,15)-(800,15),1
1040 LINE (0,35)-(800,35),1
1050 LINE (0,55)-(800,55),1
1060 LINE (0,75)-(800,75),1
1070 LINE (0,95)-(800,95),1

```

```

1080 LINE (0,115)-(800,115),1 PRINT AS
1090 LINE (0,135)-(800,135),1
1100 LINE (0,155)-(800,155),1
1110 LINE (0,175)-(800,175),1
1120 LINE (0,195)-(800,195),1
1130 LINE (0,215)-(800,215),1
1140 LINE (0,215)-(0,215),1
1150 LINE (380,15)-(380,195),1
1160 LINE (799,15)-(799,215),1
1170 LINE (160,15)-(160,195),1
1180 LINE (378,15)-(378,195),1
1190 LINE (530,15)-(530,195),1
1200 LOCATE 3,2:COLOR 3,0:PRINT "NUMERO REFERENCIA:"
1210 LOCATE 5,2:COLOR 3,0:PRINT "FECHA:"
1220 LOCATE 7,2:COLOR 3,0:PRINT "NOMBRE:"
1230 LOCATE 9,2:COLOR 3,0:PRINT "PRIMER APELLIDO:"
1240 LOCATE 11,2:COLOR 3,0:PRINT "SEGUNDO APELLIDO:"
1250 LOCATE 13,2:COLOR 3,0:PRINT "FECHA NACIMIENTO:"
1260 LOCATE 15,2:COLOR 3,0:PRINT "RAZA:"
1270 LOCATE 17,2:COLOR 3,0:PRINT "SEXO:"
1280 LOCATE 19,2:COLOR 3,0:PRINT "ESTADO:"
1290 LOCATE 3,50:COLOR 3,0:PRINT "LUGAR NACIMIENTO:"
1300 LOCATE 5,50:COLOR 3,0:PRINT "PROFESSION:"
1310 LOCATE 7,50:COLOR 3,0:PRINT "DIRECCION:"
1320 LOCATE 9,50:COLOR 3,0:PRINT "CIUDAD:"
1330 LOCATE 11,50:COLOR 3,0:PRINT "PROVINCIA:"
1340 LOCATE 13,50:COLOR 3,0:PRINT "D. P."
1350 LOCATE 15,50:COLOR 3,0:PRINT "TELEFONO:"
1360 LOCATE 17,50:COLOR 3,0:PRINT "PREFIJO:"
1370 LOCATE 19,50:COLOR 3,0:PRINT "ENVIADO POR"
1380 LOCATE 21,2 :COLOR 3,0:PRINT "NOTAS:"
1390 COLOR 2,0
1400 RETURN
1410 NU$=DDD$
1420 COD$=NU$+"DEMO":OPEN "I",#1,COD$
1430 INPUT #1,A$:LOCATE 3,22:PRINT A$
1440 INPUT #1,A$:LOCATE 5,22:PRINT A$
1450 INPUT #1,A$:LOCATE 7,22:PRINT A$
1460 INPUT #1,A$:LOCATE 9,22:PRINT A$
1470 INPUT #1,A$:LOCATE 11,22:PRINT A$

```

```
1480 INPUT #1,A$:LOCATE 13,22:PRINT A$  
1490 INPUT #1,A$:LOCATE 15,22:PRINT A$  
1500 INPUT #1,A$:LOCATE 17,22:PRINT A$  
1510 INPUT #1,A$:LOCATE 19,22:PRINT A$  
1520 FOR I=3 TO 19 STEP 2:LOCATE 1,69,8:INPUT #1,A$:PRINT A$:NEXT  
1530 LOCATE 21,11:INPUT #1,A$:PRINT A$ :CLOSE  
1540 LOCATE 24,15:COLOR 0,0:PRINT "  
  
1550 LOCATE 24,35:COLOR 3,1:PRINT " PULSE RETURN "  
1560 C$=INKEY$  
1570 IF C$=CHR$(13) THEN GOTO 650001590  
1580 GOTO 1560  
1590 CHAIN "B:MENU.BAS",2000
```

```

10 IF ACS=111 THEN NU$=DDDS:COD$=NU$+"DOI":OPEN "I",#1,COD$:COLOR 2,0:CLS:GOTO 1
670
20 SCREEN 3:COLOR 2,0:CLS
30 GOSUB 4380
40 A$=INKEY$
50 IF A$="1" THEN GOTO 90
60 IF A$="2" THEN GOTO 1620
70 IF A$="3" THEN CHAIN "B:MENU.BAS",400
80 GOTO 40
90 COLOR 3,1:CLS:LOCATE 10,17,0:INPUT "INTRODUZCA EL NUMERO DE REFERENCIA (LUEGO
PULSE, RETURN) ":" ,NUM$
100 COLOR 2,0:CLS
110 IF ACS=999 THEN GOTO 4450
120 COD$=NUM$+"DOI"
130 OPEN "O",#1,COD$
140 ' 1 CUADRO
150 GOSUB 3030
160 GOSUB 3170
170 LOCATE 24,28:COLOR 3,1:PRINT " INTRODUZCA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA) "
180 A$=INKEY$
190 IF A$="F" THEN WRITE #1,A$:GOTO 360
200 IF A$="1" THEN WRITE #1,A$:COLOR 2,1:LOCATE 3,2,0:PRINT " 1 - OJO BLANCO " :
GOTO 300
210 IF A$="2" THEN WRITE #1,A$:COLOR 2,1:LOCATE 5,2,0:PRINT " 2 - HIPEREMIA CILI
AR " :GOTO 300
220 IF A$="3" THEN WRITE #1,A$:COLOR 2,1:LOCATE 7,2,0:PRINT " 3 - HIPEREMIA CONJ
UNTIVAL " :GOTO 300
230 IF A$="4" THEN WRITE #1,A$:COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - QUEMOSIS CONJU
NTIVAL " :GOTO 300
240 IF A$="5" THEN WRITE #1,A$:COLOR 2,1:LOCATE 11,2,0:PRINT " 5 - CONGESTION VE
NOSA " :GOTO 300
250 IF A$="6" THEN WRITE #1,A$:COLOR 2,1:LOCATE 13,2,0:PRINT " 6 - ESOFAGITOMAS E
SCLERALES " :GOTO 300
260 IF A$="7" THEN WRITE #1,A$:COLOR 2,1:LOCATE 15,2,0:PRINT " 7 - HEMORRAGIA SU

```

```

BCONJ. ":"GOTO 300
270 IF A$="8" THEN WRITE #1,A$:COLOR 2,1:LOCATE 17,2,0:PRINT " 8 - CABEZA DE MED
USA ":"GOTO 300
280 IF A$="9" THEN WRITE #1,A$:COLOR 2,1:LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACI
ON ":"A=19:GOTO 310
290 IF A$="0" THEN WRITE #1,A$:COLOR 2,1:LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACI
ON ":"A=21:GOTO 330
300 GOTO 180
310 LINE (240,179)-(799,179),3:LINE(240,190)-(799,190),3:LINE(240,179)-(240,19
0),3:LINE (799,179)-(799,190),3
320 LOCATE 24,28:COLOR 0,0:PRINT "
320 LOCATE 24,28:COLOR 3,1: PRINT " AL TERMINAR DE INTRODUCIR PULSE
RETURN ":"LOCATE A,33,0:PRINT "":LOCATE A,33,0:COLOR 2,1:INPUT "",A$:WRITE #1,
A$:GOTO 170
330 LINE (240,199)-(799,199),3:LINE(240,210)-(799,210),3:LINE(240,199)-(240,21
0),3:LINE (799,199)-(799,210),3
340 LOCATE 24,28:COLOR 0,0:PRINT "
340 LOCATE 24,28:COLOR 3,1: PRINT " AL TERMINAR DE INTRODUCIR PULSE
RETURN ":"LOCATE A,33,0:PRINT "":LOCATE A,33,0:COLOR 2,1:INPUT "",A$:WRITE #1,
A$:GOTO 170
350 LOCATE 24,28:COLOR 0,0:PRINT "
350 LOCATE 24,28:COLOR 3,1: PRINT " AL TERMINAR DE INTRODUCIR PULSE
RETURN ":"LOCATE A,33,0:PRINT "":LOCATE A,33,0:COLOR 2,1:INPUT "",A$:WRITE #1,
A$:GOTO 170
360 , 2 CUADRO
370 COLOR 2,0:CLS
380 GOSUB 3240
390 LOCATE 24,28:COLOR 3,1:PRINT " INTRODUZCA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA)
400 A$=INKEY$
410 IF A$="F" THEN WRITE #1,A$:COLOR 2,1:GOTO 630
420 IF A$="1" THEN WRITE #1,A$: LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - TAMAÑO " :GOT
O 530
430 IF A$="2" THEN WRITE #1,A$:COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - EDEMA " :GOTO
520
440 IF A$="3" THEN WRITE #1,A$:COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - DESGARROS EN
DESCMET " :GOTO 520
450 IF A$="4" THEN WRITE #1,A$:COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - PRECIPIT
ADOS RETROCORNEALES " :GOTO 520
460 IF A$="5" THEN WRITE #1,A$:COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - OPACIDADES "

```

```

:GOTO 550
470 IF A$="6" THEN WRITE #1,A$:COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - VASCULAR
IZACION " :GOTO 570
480 IF A$="7" THEN WRITE #1,A$:COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - QUERATITIS B
ULLOSA " :GOTO 520
490 IF A$="8" THEN WRITE #1,A$:COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - HIPOESTESIA
" :GOTO 520
500 IF A$="9" THEN WRITE #1,A$:COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALT
ERACION " :GOTO 590
510 IF A$="0" THEN WRITE #1,A$:COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALT
ERACION " :GOTO 610
520 GOTO 400
530 LINE (120,19)-(120,30),3:LINE(275,19)-(275,30),0:LINE (120,19)-(799,19),3:LI
NE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
540 LOCATE 3,18,0:COLOR 2,1: PRINT " " :LOCATE 3,18,0:INPUT "",A$:WRITE #1,A$:GOT
O 520
550 LINE (148, 99)-(148,110),3:LINE(275, 99)-(275,110),0:LINE (120, 99)-(799, 99
),3:LINE (120,110)-(799,110),3:LINE (799, 99)-(799,110),3
560 LOCATE 11,21,0:COLOR 2,1: PRINT " " :LOCATE 11,21,0:INPUT "",A$:WRITE #1,A$:G
OTO 520
570 LINE (182,119)-(182,130),3:LINE(275,119)-(275,130),0:LINE (120,119)-(799,119
),3:LINE (120,130)-(799,130),3:LINE (799,119)-(799,130),3
580 LOCATE 13,25,0:COLOR 2,1: PRINT " " :LOCATE 13,25,0:INPUT "",A$:WRITE #1,A$:G
OTO 520
590 LINE (184,179)-(184,190),3:LINE(275,179)-(275,190),0:LINE (120,179)-(799,179
),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,190),3
600 LOCATE 19,25,0:COLOR 2,1: PRINT " " :LOCATE 19,25,0:INPUT "",A$:WRITE #1,A$:G
OTO 520
610 LINE (184,199)-(184,210),3:LINE(275,199)-(275,210),0:LINE (120,199)-(799,199
),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,210),3
620 LOCATE 21,25,0:COLOR 2,1: PRINT " " :LOCATE 21,25,0:INPUT "",A$:WRITE #1,A$:G
OTO 520
630 COLOR 2,0:CLS:GOSUB 3440
640 LOCATE 24,28:COLOR 3,1:PRINT " INTRODUZCA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA "
650 A$=INKEY$
660 IF A$="F" THEN WRITE #1,A$:GOTO 860
670 IF A$="1" THEN WRITE #1,A$: LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - PROFUNDIDAD
" :GOTO 780
680 IF A$="2" THEN WRITE #1,A$:COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - TYNDAL " :GO

```

```

TO 770
690 IF A$="3" THEN WRITE #1,A$:COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - CORPUSCULOS
FLOTANTES":GOTO 770
700 IF A$="4" THEN WRITE #1,A$:COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - GRANOS DE P
IGMENTO":GOTO 770
710 IF A$="5" THEN WRITE #1,A$:COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - PRECIPITADOS
CICLICOS":GOTO 800
720 IF A$="6" THEN WRITE #1,A$:COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - HIPOPION " :
GOTO 770
730 IF A$="7" THEN WRITE #1,A$:COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - HIPEMA " :G
OTO 770
740 IF A$="8" THEN WRITE #1,A$:COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - INVASION PIG
C.ANT.":GOTO 770
750 IF A$="9" THEN WRITE #1,A$:COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERA
CION":GOTO 820
760 IF A$="0" THEN WRITE #1,A$:COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERA
CION":GOTO 840
770 GOTO 650
780 LINE (120,19)-(120,30),1:LINE (233,19)-(233,30),0:LINE(154,19)-(154,30),3:LI
NE (120,19)-(799,19),3:LINE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
790 LOCATE 3,22,0:COLOR 2,1: PRINT ":";LOCATE 3,22,0:INPUT "",A$:WRITE #1,A$:GOT
0 770
800 LINE (120,99)-(120,110),1:LINE (233,99)-(233,110),0:LINE(236,99)-(236,110),3
:LINE (120,99)-(799,99),3:LINE (120,110)-(799,110),3:LINE (799,99)-(799,110),3
810 LOCATE 11,32,0:COLOR 2,1: PRINT ":";LOCATE 11,32,0:INPUT "",A$:WRITE #1,A$:G
OTO 770
820 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(236,179)-(236,190
),3:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,19
0),3
830 LOCATE 19,32,0:COLOR 2,1: PRINT ":";LOCATE 19,32,0:INPUT "",A$:WRITE #1,A$:G
OTO 770
840 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(236,199)-(236,210
),3:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,21
0),3
850 LOCATE 21,32,0:COLOR 2,1: PRINT ":";LOCATE 21,32,0:INPUT "",A$:WRITE #1,A$:G
OTO 770
860 COLOR 2,0:CLS:GOSUB 3630
870 LOCATE 24,28:COLOR 3,1:PRINT " INTRODUZCA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA)"
880 A$=INKEY$
890 IF A$="F" THEN WRITE #1,A$:GOTO 1130

```

```

900 IF A$="1" THEN WRITE #1,A$:LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - TAMANO " :GOT
0 1010
910 IF A$="2" THEN WRITE #1,A$:LOCATE 5,2,0:PRINT " 2 - FORMA " :GOTO 1030
920 IF A$="3" THEN WRITE #1,A$:COLOR 2,1:LOCATE 7,2,0:PRINT " 3 - DESVIACION P
UPILAR " :GOTO 1000
930 IF A$="4" THEN WRITE #1,A$:COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - REFLEJO FOT
OMOTOR " :GOTO 1050
940 IF A$="5" THEN WRITE #1,A$:COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - BLOQUEO PUP
ILAR " :GOTO 1000
950 IF A$="6" THEN WRITE #1,A$:COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - ECTROPION P
IG. " :GOTO 1000
960 IF A$="7" THEN WRITE #1,A$:COLOR 2,1:LOCATE 15,2,0:PRINT " 7 - DESGARRO BORD
E PUPILAR " :GOTO 1000
970 IF A$="8" THEN WRITE #1,A$:COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - OTRA ALTERAC
ION " :GOTO 1070
980 IF A$="9" THEN WRITE #1,A$:COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERAC
ION " :GOTO 1090
990 IF A$="0" THEN WRITE #1,A$:COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERAC
ION " :GOTO 1110
1000 GOTO 880
1010 LINE (120,19)-(120,30),3:LINE (233,19)-(233,30),0:LINE(154,19)-(154,30),0:L
INE (120,19)-(799,19),3:LINE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
1020 LOCATE 3,18,0:COLOR 2,1: PRINT " ";LOCATE 3,18,0:INPUT "",A$:WRITE #1,A$:GO
TO 1000
1030 LINE (120,39)-(120,50),3:LINE (233,39)-(233,50),0:LINE(154,39)-(154,50),0:L
INE (120,39)-(799,39),3:LINE (120,50)-(799,50),3:LINE (799,39)-(799,50),3
1040 LOCATE 5,18,0:COLOR 2,1: PRINT " ";LOCATE 5,18,0:INPUT "",A$:WRITE #1,A$:GO
TO 1000
1050 LINE (120,79)-(120,90),1:LINE (233,79)-(233,90),0:LINE(204,79)-(204,90),2:L
INE (120,79)-(799,79),3:LINE (120,90)-(799,90),3:LINE (799,79)-(799,90),3
1060 LOCATE 9,28,0:COLOR 2,1: PRINT " ";LOCATE 9,28,0:INPUT "",A$:WRITE #1,A$:GO
TO 1000
1070 LINE (120,159)-(120,170),1:LINE (233,159)-(233,170),0:LINE(204,159)-(204,17
0),2:LINE (120,159)-(799,159),3:LINE (120,170)-(799,170),3:LINE (799,159)-(799,1
70),3
1080 LOCATE 17,28,0:COLOR 2,1: PRINT " ";LOCATE 17,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 1000
1090 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3

```

```

1100 LOCATE 19,28,0:COLOR 2,1: PRINT " ";LOCATE 19,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 1000
1110 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3
1120 LOCATE 21,28,0:COLOR 2,1: PRINT " ";LOCATE 21,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 1000
1130 '5 CUADRO
1140 COLOR 2,0:CLS:GOSUB 3820
1150 LOCATE 24,28:COLOR 3,1:PRINT " INTRODUZCA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA)"
1160 A$=INKEY$
1170 IF A$=="F" THEN WRITE #1,A$:GOTO 1390
1180 IF A$=="1" THEN WRITE #1,A$:COLOR 2,1: LOCATE 3,2,0:PRINT " 1 - ANIRIDIA ";
GOTO 1280
1190 IF A$=="2" THEN WRITE #1,A$:COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - ASPECTO ";G
OTO 1290
1200 IF A$=="3" THEN WRITE #1,A$:COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - ATROFIA TOT
AL ":"GOTO 1280
1210 IF A$=="4" THEN WRITE #1,A$:COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - ATROFIA SEGMI
ENTARIA "
:GOTO 1280
1220 IF A$=="5" THEN WRITE #1,A$:COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - ALT. POR MI
OTICOS "
:GOTO 1280
1230 IF A$=="6" THEN WRITE #1,A$:COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - HETEROCLOROMI
A "
:GOTO 1280
1240 IF A$=="7" THEN WRITE #1,A$:COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - VASCULARIZA
CION "
:GOTO 1370
1250 IF A$=="8" THEN WRITE #1,A$:COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - SINEQUIAS "
:GOTO 1310
1260 IF A$=="9" THEN WRITE #1,A$:COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERA
CION "
:GOTO 1330
1270 IF A$=="0" THEN WRITE #1,A$:COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERA
CION "
:GOTO 1350
1280 GOTO 1160
1290 LINE (120,39)-(120,50),3:LINE (233,39)-(233,50),0:LINE(154,39)-(154,50),0:L
INE (120,39)-(799,39),3:LINE (120,50)-(799,50),3:LINE (799,39)-(799,50),3
1300 LOCATE 5,18,0:COLOR 2,1: PRINT " ";LOCATE 5,18,0:INPUT "",A$:WRITE #1,A$:GO
TO 1280
1310 LINE (120,159)-(120,170),1:LINE (233,159)-(233,170),0:LINE(204,159)-(204,17
0),2:LINE (120,159)-(799,159),3:LINE (120,170)-(799,170),3:LINE (799,159)-(799,1
)

```

```

70),3 LOCATE 17,28,0:COLOR 2,1: PRINT " " :LOCATE 17,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 1280
1330 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3
1340 LOCATE 19,28,0:COLOR 2,1: PRINT " " :LOCATE 19,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 1280
1350 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3
1360 LOCATE 21,28,0:COLOR 2,1: PRINT " " :LOCATE 21,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 1280
1370 LINE (120,139)-(120,150),1:LINE (233,139)-(233,150),0:LINE(204,139)-(204,15
0),2:LINE (120,139)-(799,139),3:LINE (120,150)-(799,150),3:LINE (799,139)-(799,1
50),3
1380 LOCATE 15,28,0:COLOR 2,1: PRINT " " :LOCATE 15,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 1280
1390 ,6 CUADRO
1400 COLOR 2,0:CLS:GOSUB 4010
1410 LOCATE 24,28:COLOR 3,1:PRINT " INTRODUZCA EL NUMERO ELEGIDO (PULSE (F) PARA
PASAR PAGINA)"
1420 A$=INKEY$
1430 IF A$="F" THEN WRITE #1,A$:GOTO 1590
1440 IF A$="1" THEN WRITE #1,A$:COLOR 2,1: LOCATE 3,2,0:PRINT " 1 - AFAQUIA " ;G
OTO 1540
1450 IF A$="2" THEN WRITE #1,A$:COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - CAT. PRIMIT
IVA " ;GOTO 1540
1460 IF A$="3" THEN WRITE #1,A$:COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - CAT. SECUND
ARIA " ;GOTO 1540
1470 IF A$="4" THEN WRITE #1,A$:COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - EXFOLIACION
CAPSULAR " ;GOTO 1540
1480 IF A$="5" THEN WRITE #1,A$:COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - LUXACION " ;
GOTO 1540
1490 IF A$="6" THEN WRITE #1,A$:COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - SUBLUXACION
" ;GOTO 1540
1500 IF A$="7" THEN WRITE #1,A$:COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - HIPOPLASIA
" ;GOTO 1540
1510 IF A$="8" THEN WRITE #1,A$:COLOR 2,1:LOCATE 17,2,0:PRINT " 8 - PRECIPITADOS
PRECAPS. " ;GOTO 1540

```

```

1520 IF A$="9" THEN WRITE #1,A$:COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERA
CION ":"GOTO 1550
1530 IF A$="0" THEN WRITE #1,A$:COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERA
CION ":"GOTO 1570
1540 GOTO 1420
1550 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE (204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3
1560 LOCATE 19,28,0:COLOR 2,1: PRINT " " :LOCATE 19,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 1540
1570 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE (204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3
1580 LOCATE 21,28,0:COLOR 2,1: PRINT " " :LOCATE 21,28,0:INPUT "",A$:WRITE #1,A$:
GOTO 1540
1590 CLOSE #
1600 IF ACS=999 THEN GOTO 4460
1610 GOSUB 4200
1620 ' LEER
1630 COLOR 1,3:CLS:LOCATE 10,17,0:INPUT "INTRODUZCA EL NUMERO DE REFERENCIA (LUEG
O PULSE RETURN) ":" ,NUM$
1640 COLOR 2,0:CLS
1650 COD$=NUM$+"DOT"
1660 OPEN "I",#1,COD$
1670 ' 1 CUADRO
1680 GOSUB 3030
1690 GOSUB 3170
1700 INPUT #1,A$:
1710 IF A$="F" THEN GOSUB 4290:GOTO 1860
1720 IF A$="1" THEN COLOR 2,1:LOCATE 3,2,0:PRINT " 1 - OJO BLANCO " :GOTO 1700
1730 IF A$="2" THEN COLOR 2,1:LOCATE 5,2,0:PRINT " 2 - HIPEREMIA CILIAR " :GOTO 1
700
1740 IF A$="3" THEN COLOR 2,1:LOCATE 7,2,0:PRINT " 3 - HIPEREMIA CONJUNTIVAL " ;G
OTO 1700
1750 IF A$="4" THEN COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - QUEMOSIS CONJUNTIVAL " ;GO
TO 1700
1760 IF A$="5" THEN COLOR 2,1:LOCATE 11,2,0:PRINT " 5 - CONGESTION VENOSA " ;GOT
O 1700
1770 IF A$="6" THEN COLOR 2,1:LOCATE 13,2,0:PRINT " 6 - ESTAFILOMAS ESCLERALES "
:GOTO 1700

```

```

1780 IF A$="7" THEN COLOR 2,1:LOCATE 15,2,0:PRINT " 7 - HEMORRAGIA SUBCONJ. " :GO
TO 1700
1790 IF A$="8" THEN COLOR 2,1:LOCATE 17,2,0:PRINT " 8 - CABEZA DE MEDUSA " :GOTO
1700
1800 IF A$="9" THEN COLOR 2,1:LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :A=19:G
OTO 1820
1810 IF A$="0" THEN COLOR 2,1:LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " :A=21:G
OTO 1840
1820 LINE (240,179)-(799,179),3:LINE(240,190)-(799,190),3:LINE(240,179)-(240,1
90),3:LINE (799,179)-(799,190),3
1830 INPUT #1,A$:LOCATE 19,32:COLOR 2,1:PRINT A$:GOTO 1700
1840 LINE (240,199)-(799,199),3:LINE(240,210)-(799,210),3:LINE(240,199)-(240,2
10),3:LINE (799,199)-(799,210),3
1850 INPUT #1,A$:LOCATE 21,32:COLOR 2,1:PRINT A$:GOTO 1700
1860 ,2 CUADRO
1870 COLOR 2,0:CLS
1880 GOSUB 3240
1890 INPUT #1,A$
1900 IF A$="F" THEN GOSUB 4290:GOTO 2110
1910 IF A$="1" THEN LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - TAMAÑO " :GOTO 2010
1920 IF A$="2" THEN COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - EDEMA " :GOTO 1890
1930 IF A$="3" THEN COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - DESGARROS EN DESCMET "
:GOTO 1890
1940 IF A$="4" THEN COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - PRECIPITADOS RETROCORNE
ALES " :GOTO 1890
1950 IF A$="5" THEN COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - OPACIDADES " :GOTO 2030
1960 IF A$="6" THEN COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - VASCULARIZACION " :GOTO
2050
1970 IF A$="7" THEN COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - QUERATITIS BULLOSA " :GO
TO 1890
1980 IF A$="8" THEN COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - HIPOESTESIA " :GOTO 189
0
1990 IF A$="9" THEN COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :GOTO
2070
2000 IF A$="0" THEN COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " :GOTO
2090
2010 LINE (120,19)-(120,30),3:LINE(275,19)-(275,30),0:LINE (120,19)-(799,19),3:L
INE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
2020 INPUT #1,A$:LOCATE 3,18,0:COLOR 2,1:PRINT A$:GOTO 1890
2030 LINE (148,99)-(148,110),3:LINE(275,99)-(275,110),0:LINE (120, 99)-(799, 99)
,3:LINE (120,110)-(799,110),3:LINE (799, 99)-(799,110),3

```

```

2040 INPUT #1,A$:LOCATE 11,21,0:COLOR 2,1:PRINT A$:GOTO 1890
2050 LINE (182,119)-(182,130),3:LINE(275,119)-(275,130),0:LINE (120,119)-(799,11
9),3:LINE (120,130)-(799,130),3:LINE (799,119)-(799,130),3
2060 INPUT #1,A$:LOCATE 13,25,0:COLOR 2,1:PRINT A$:GOTO 1890
2070 LINE (184,179)-(184,190),3:LINE(275,179)-(275,190),0:LINE (120,179)-(799,17
9),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,190),3
2080 INPUT #1,A$:COLOR 2,1: LOCATE 19,25,0:PRINT A$:GOTO 1890
2090 LINE (184,199)-(184,210),3:LINE(275,199)-(275,210),0:LINE (120,199)-(799,19
9),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,210),3
2100 INPUT #1,A$:LOCATE 21,25,0:COLOR 2,1: PRINT A$:GOTO 1890
2110 COLOR 2,0:CLS:GOSUB 3440
2120 INPUT #1,A$
2130 IF A$="F" THEN GOSUB 4290:GOTO 2320
2140 IF A$="1" THEN LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - PROFUNDIDAD " :GOTO 224
0
2150 IF A$="2" THEN COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - TYNDAL " :GOTO 2120
2160 IF A$="3" THEN COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - CORPUSCULOS FLOTANTES "
:GOTO 2120
2170 IF A$="4" THEN COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - GRANOS DE PIGMENTO " :G
OTO 2120
2180 IF A$="5" THEN COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - PRECIPITADOS CICLICOS "
:GOTO 2260
2190 IF A$="6" THEN COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - HIPOPION " :GOTO 2120
2200 IF A$="7" THEN COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - HIPEMA " :GOTO 2120
2210 IF A$="8" THEN COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - INVASION PIG. C.ANT. "
:GOTO 2120
2220 IF A$="9" THEN COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :GOTO
2280
2230 IF A$="0" THEN COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " :GOTO
2300
2240 LINE (120,19)-(120,30),1:LINE (233,19)-(233,30),0:LINE(154,19)-(154,30) ,3:L
INE (120,19)-(799,19),3:LINE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
2250 INPUT #1,A$:LOCATE 3,23:COLOR 2,1: PRINT A$:GOTO 2120
2260 LINE (120,99)-(120,110),1:LINE (233,99)-(233,110),0:LINE(236,99)-(236,110),
3:LINE (120,99)-(799,99),3:LINE (120,110)-(799,110),3:LINE (799,99)-(799,110),3
2270 INPUT #1,A$:LOCATE 11,32:COLOR 2,1: PRINT A$:GOTO 2120
2280 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(236,179)-(236,19
0),3:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3
2290 INPUT #1,A$:LOCATE 19,32,0:COLOR 2,1: PRINT A$:GOTO 2120

```

```

2300 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(236,199)-(236,210),3:LINE (120,199),3:LINE (799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,210),3
2310 INPUT #1,A$:LOCATE 21,32,0:COLOR 2,1: PRINT A$:GOTO 2120
2320 COLOR 2,0:CLS:GOSUB 3630
2330 INPUT #1,A$
2340 IF A$="F" THEN GOSUB 4290:GOTO 2570
2350 IF A$="1" THEN LOCATE 3,2,0:COLOR 2,1:PRINT " 1 - TAMANO " :GOTO 2450
2360 IF A$="2" THEN LOCATE 5,2,0:PRINT " 2 - FORMA " :GOTO 2470
2370 IF A$="3" THEN COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - DESVIACION PUPILAR " :GO
TO 2330
2380 IF A$="4" THEN COLOR 2,1: LOCATE 9,2,0:PRINT " 4 - REFLEJO FOTOMOTOR " :GO
TO 2490
2390 IF A$="5" THEN COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - BLOQUEO PUPILAR " :GOTO
2330
2400 IF A$="6" THEN COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - ECTROPTION PIG. " :GOTO
2330
2410 IF A$="7" THEN COLOR 2,1:LOCATE 15,2,0:PRINT " 7 - DESCARRO BORDE PUPILAR "
:GOTO 2330
2420 IF A$="8" THEN COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - OTRA ALTERACION " :GOTO
2510
2430 IF A$="9" THEN COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :GOTO
2530
2440 IF A$="0" THEN COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " :GOTO
2550
2450 LINE (120,19)-(120,30),3:LINE (233,19)-(233,30),0:LINE(154,19)-(154,30),0:L
INE (120,19)-(799,19),3:LINE (120,30)-(799,30),3:LINE (799,19)-(799,30),3
2460 INPUT #1,A$:LOCATE 3,18:COLOR 2,1: PRINT A$:GOTO 2330
2470 LINE (120,39)-(120,50),3:LINE (233,39)-(233,50),0:LINE(154,39)-(154,50),0:L
INE (120,39)-(799,39),3:LINE (120,50)-(799,50),3:LINE (799,39)-(799,50),3
2480 INPUT #1,A$:LOCATE 5,18,0:COLOR 2,1: PRINT A$:GOTO 2330
2490 LINE (120,79)-(120,90),1:LINE (233,79)-(233,90),0:LINE(204,79)-(204,90),2:L
INE (120,79)-(799,79),3:LINE (120,90)-(799,90),3:LINE (799,79)-(799,90),3
2500 INPUT #1,A$:LOCATE 9,29,0:COLOR 2,1: PRINT A$:GOTO 2330
2510 LINE (120,159)-(120,170),1:LINE (233,159)-(233,170),0:LINE(204,159)-(204,17
0),2:LINE (120,159)-(799,159),3:LINE (120,170)-(799,170),3:LINE (799,159)-(799,1
70),3
2520 INPUT #1,A$:LOCATE 17,29,0:COLOR 2,1: PRINT A$:GOTO 2330
2530 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1

```

```

90),3
2540 INPUT #1,A$:LOCATE 19,29,0:COLOR 2,1:PRINT A$:GOTO 2330
2550 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3
2560 INPUT #1,A$:LOCATE 21,29,0:COLOR 2,1:PRINT A$:GOTO 2330
2570 '5 CUADRO
2580 COLOR 2,0:CLS:GOSUB 3820
2590 INPUT #1,A$:
2600 IF A$="F" THEN GOSUB 4290:GOTO 2810
2610 IF A$="1" THEN COLOR 2,1: LOCATE 3,2,0:PRINT " 1 - ANIRIDIA " :GOTO 2590
2620 IF A$="2" THEN LOCATE 5,2,0:PRINT " 2 - ASPECTO " :GOTO 2710
2630 IF A$="3" THEN COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - ATROFIA TOTAL " :GOTO 2
590
2640 IF A$="4" THEN COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - ATROFIA SEGMENTARIA " :G
0TO 2590
2650 IF A$="5" THEN COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - ALT. POR MIOTICOS " :GOT
0 2590
2660 IF A$="6" THEN COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - HETEROCROMIA " :GOTO 259
0
2670 IF A$="7" THEN COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - VASCULARIZACION " :GOTO
2790
2680 IF A$="8" THEN COLOR 2,1: LOCATE 17,2,0:PRINT " 8 - SINEQUIAS " :GOTO 2730
2690 IF A$="9" THEN COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :GOTO
2750
2700 IF A$="0" THEN COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " :GOTO
2770
2710 LINE (120,39)-(120,50),3:LINE (233,39)-(233,50),0:LINE(154,39)-(154,50),0:L
INE (120,39)-(799,39),3:LINE (120,50)-(799,50),3:LINE (799,39)-(799,50),3
2720 INPUT #1,A$:LOCATE 5,18,0:COLOR 2,1:PRINT A$:GOTO 2590
2730 LINE (120,159)-(120,170),1:LINE (233,159)-(233,170),0:LINE(204,159)-(204,17
0),2:LINE (120,159)-(799,159),3:LINE (120,170)-(799,170),3:LINE (799,159)-(799,1
70),3
2740 INPUT #1,A$:LOCATE 17,28,0:COLOR 2,1: PRINT A$:GOTO 2590
2750 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3
2760 INPUT #1,A$:LOCATE 19,28,0:COLOR 2,1: PRINT A$:GOTO 2590
2770 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3

```

```

10),3
2780 INPUT #1,A$:LOCATE 21,28,0:COLOR 2,1: PRINT A$:GOTO 2590
2790 LINE (120,139)-(120,150),1:LINE (233,139)-(233,150),0:LINE(204,139)-(204,15
0),2:LINE (120,139)-(799,139),3:LINE (120,150)-(799,150),3:LINE (799,139)-(799,1
50),3
2800 INPUT #1,A$:LOCATE 15,28,0:COLOR 2,1: PRINT A$:GOTO 2590
2810 , 6 CUADRO
2820 COLOR 2,0:CLS:GOSUB 4010
2830 INPUT #1,A$
2840 IF A$="F" THEN GOSUB 4290 :GOTO 2990
2850 IF A$="1" THEN COLOR 2,1: LOCATE 3,2,0:PRINT " 1 - AFAQUIA " :GOTO 2830
2860 IF A$="2" THEN COLOR 2,1: LOCATE 5,2,0:PRINT " 2 - CAT. PRIMITIVA " :GOTO 2
830
2870 IF A$="3" THEN COLOR 2,1: LOCATE 7,2,0:PRINT " 3 - CAT. SECUNDARIA " :GOTO
2830
2880 IF A$="4" THEN COLOR 2,1:LOCATE 9,2,0:PRINT " 4 - EXFOLIACION CAPSULAR " :G
OTO 2830
2890 IF A$="5" THEN COLOR 2,1: LOCATE 11,2,0:PRINT " 5 - LUXACION " :GOTO 2830
2900 IF A$="6" THEN COLOR 2,1: LOCATE 13,2,0:PRINT " 6 - SUBLUXACION " :GOTO 2830
2910 IF A$="7" THEN COLOR 2,1: LOCATE 15,2,0:PRINT " 7 - HIPOPLASIA " :GOTO 2830
2920 IF A$="8" THEN COLOR 2,1:LOCATE 17,2,0:PRINT " 8 - PRECIPITADOS PRECAPS. " :
GOTO 2830
2930 IF A$="9" THEN COLOR 2,1: LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION " :GOTO
2950
2940 IF A$="0" THEN COLOR 2,1: LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION " :GOTO
2970
2950 LINE (120,179)-(120,190),1:LINE (233,179)-(233,190),0:LINE(204,179)-(204,19
0),2:LINE (120,179)-(799,179),3:LINE (120,190)-(799,190),3:LINE (799,179)-(799,1
90),3
2960 INPUT #1,A$:LOCATE 19,28,0:COLOR 2,1: PRINT A$:GOTO 2830
2970 LINE (120,199)-(120,210),1:LINE (233,199)-(233,210),0:LINE(204,199)-(204,21
0),2:LINE (120,199)-(799,199),3:LINE (120,210)-(799,210),3:LINE (799,199)-(799,2
10),3
2980 INPUT #1,A$:LOCATE 21,28,0:COLOR 2,1: PRINT A$:GOTO 2830
2990 CLOSE #1
3000 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
3010 GOSUB 4200
3020 LOCATE 1,1,8:COLOR 2,0:END
3030 , 1 CUADRO
3040 LOCATE 1,1:COLOR 1,3:PRINT " CONJUNTIVA Y ESCLERA O.I."

```

```

3050 COLOR 2,0
3060 LOCATE 3,2,0:PRINT " 1 - OJO BLANCO "
3070 LOCATE 5,2,0:PRINT " 2 - HIPEREMIA CILIAR "
3080 LOCATE 7,2,0:PRINT " 3 - HIPEREMIA CONJUNTIVAL "
3090 LOCATE 9,2,0:PRINT " 4 - QUEMOSIS CONJUNTIVAL "
3100 LOCATE 11,2,0:PRINT " 5 - CONGESTION VENOSA "
3110 LOCATE 13,2,0:PRINT " 6 - ESTAFILOMAS ESCLERALES "
3120 LOCATE 15,2,0:PRINT " 7 - HEMORRAGIA SUBCONJ.
3130 LOCATE 17,2,0:PRINT " 8 - CABEZA DE MEDUSA "
3140 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
3150 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
3160 RETURN
3170 ' LINEAS 1 CUADRO
3180 A=7:B=240:FOR T=19 TO 199 STEP 20:LINE (A,T)-(B,T),3:NEXT
3190 A=7:B=240:FOR T=30 TO 210 STEP 20:LINE (A,T)-(B,T),3:NEXT
3200 LINE(7,19)-(7,39)-3:LINE(7,39)-(7,50),3:LINE(7,59)-(7,79)
0),3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
3210 LINE(240,19)-(240,39)-3:LINE(240,39)-(240,59),3:LINE(240,59)-(240,70),3:LIN
E(240,79)-(240,90),3:LINE(240,99)-(240,110),3:LINE(240,119)-(240,130),3:LINE(240
,139)-(240,150),3
3220 LINE(240,159)-(240,170),3:LINE(240,179)-(240,190),3:LINE(240,199)-(240,210)
3
3230 RETURN
3240 ' 2 CUADRO
3250 LOCATE 1,1,0:COLOR 1,3:PRINT " CORNEA O.I. "
3260 COLOR 2,0
3270 LOCATE 3,2,0:PRINT " 1 - TAMANO "
3280 LOCATE 5,2,0:PRINT " 2 - EDEMA "
3290 LOCATE 7,2,0:PRINT " 3 - DESCARROS EN DESCMET "
3300 LOCATE 9,2,0:PRINT " 4 - PRECIPITADOS RETROCORNEALES "
3310 LOCATE 11,2,0:PRINT " 5 - OPACIDADES "
3320 LOCATE 13,2,0:PRINT " 6 - VASCULARIZACION "
3330 LOCATE 15,2,0:PRINT " 7 - QUERATITIS BULLOSA "
3340 LOCATE 17,2,0:PRINT " 8 - HIPOESTESIA "
3350 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
3360 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
3370 A=7:B=275:FOR T=19 TO 199 STEP 20:LINE (A,T)-(B,T),3:NEXT
3380 A=7:B=275:FOR T=30 TO 210 STEP 20:LINE (A,T)-(B,T),3:NEXT
3390 LINE(7,19)-(7,39)-(7,50),3:LINE(7,59)-(7,70),3:LINE(7,79)-(7,9

```

```

0),3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,150),3:LINE(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
3400 LINE(275,19)-(275,30),3:LINE(275,39)-(275,50),3:LINE(275,59)-(275,70),3:LIN
E(275,79)-(275,90),3:LINE(275,99)-(275,110),3:LINE(275,119)-(275,130),3:LINE(275
,139)-(275,150),3
3410 LINE(275,159)-(275,170),3:LINE(275,179)-(275,190),3:LINE(275,199)-(275,210)
'3

3420 COLOR 2,0
3430 RETURN
3440 ' 3 CUADRO C.ANT.
3450 LOCATE 1,1,0:COLOR 1,3:PRINT " C A M A R A A N T E R I O R O . I . "
3460 COLOR 2,0
3470 LOCATE 3,2,0:PRINT " 1 - PROFUNDIDAD "
3480 LOCATE 5,2,0:PRINT " 2 - TYNDAL "
3490 LOCATE 7,2,0:PRINT " 3 - CORPUSCULOS FLOTANTES "
3500 LOCATE 9,2,0:PRINT " 4 - GRANOS DE PIGMENTO "
3510 LOCATE 11,2,0:PRINT " 5 - PRECIPITADOS CICLICOS "
3520 LOCATE 13,2,0:PRINT " 6 - HIPOSION "
3530 LOCATE 15,2,0:PRINT " 7 - HIPEMA "
3540 LOCATE 17,2,0:PRINT " 8 - INVASION PIG. C.ANT. "
3550 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
3560 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
3570 A=7:B=233:FOR T=19 TO 199 STEP 20:LINE(A,T)-(B,T),3:NEXT
3580 A=7:B=233:FOR T=30 TO 210 STEP 20:LINE(A,T)-(B,T),3:NEXT
3590 LINE(7,19)-(7,30),3:LINE(7,39)-(7,50),3:LINE(7,59)-(7,70),3:LINE(7,79)-(7,9
0),3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,150),3:LINE(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
3600 LINE(233,19)-(233,30),3:LINE(233,39)-(233,50),3:LINE(233,59)-(233,70),3:LIN
E(233,79)-(233,90),3:LINE(233,99)-(233,110),3:LINE(233,119)-(233,130),3:LINE(233
,139)-(233,150),3
3610 LINE(233,159)-(233,170),3:LINE(233,179)-(233,190),3:LINE(233,199)-(233,210)
'3

3620 RETURN
3630 ' 4 CUADRO PUPILA
3640 LOCATE 1,1,0:COLOR 1,3:PRINT " P U P I L A O . I . "
3650 COLOR 2,0
3660 LOCATE 3,2,0:PRINT " 1 - TAMANO "
3670 LOCATE 5,2,0:PRINT " 2 - FORMA "
3680 LOCATE 7,2,0:PRINT " 3 - DESVIACION PUPILAR "
3690 LOCATE 9,2,0:PRINT " 4 - REFLEJO FOTOMOTOR "

```

```

3700 LOCATE 11,2,0:PRINT " 5 - BLOQUEO PUPILAR "
3710 LOCATE 13,2,0:PRINT " 6 - ECTROPION PIG. "
3720 LOCATE 15,2,0:PRINT " 7 - DESCARRO BORDE PUPILAR "
3730 LOCATE 17,2,0:PRINT " 8 - OTRA ALTERACION "
3740 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
3750 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
3760 A=7:B=233:FOR T=19 TO 199 STEP 20:LINE (A,T)-(B,T),3:NEXT
3770 A=7:B=233:FOR T=30 TO 210 STEP 20:LINE (A,T)-(B,T),3:NEXT
3780 LINE(7,19)-(7,30),3:LINE(7,39)-(7,50),3:LINE(7,59)-(7,79)-(7,9
0),3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
3790 LINE(233,19)-(233,30),3:LINE(233,39)-(233,50),3:LINE(233,59)-(233,70),3:LIN
E(233,79)-(233,90),3:LINE(233,99)-(233,110),3:LINE(233,119)-(233,130),3:LINE(233
,139)-(233,150),3
3800 LINE(233,159)-(233,170),3:LINE(233,179)-(233,190),3:LINE(233,199)-(233,210)
,3

3810 RETURN
3820 ' 5 CUADRO IRIS
3830 LOCATE 1,1,0:COLOR 1,3:PRINT " I R I S   O.I. "
3840 COLOR 2,0
3850 LOCATE 3,2,0:PRINT " 1 - ANIRIDIA "
3860 LOCATE 5,2,0:PRINT " 2 - ASPECTO "
3870 LOCATE 7,2,0:PRINT " 3 - ATROFIA TOTAL "
3880 LOCATE 9,2,0:PRINT " 4 - ATROFIA SEGMENTARIA "
3890 LOCATE 11,2,0:PRINT " 5 - ALT. POR MIOTICOS "
3900 LOCATE 13,2,0:PRINT " 6 - HETEROCROMIA "
3910 LOCATE 15,2,0:PRINT " 7 - VASCULARIZACION "
3920 LOCATE 17,2,0:PRINT " 8 - SINEQUIAS "
3930 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
3940 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
3950 A=7:B=233:FOR T=19 TO 199 STEP 20:LINE (A,T)-(B,T),3:NEXT
3960 A=7:B=233:FOR T=30 TO 210 STEP 20:LINE (A,T)-(B,T),3:NEXT
3970 LINE(7,19)-(7,30),3:LINE(7,39)-(7,50),3:LINE(7,59)-(7,79)-(7,9
0),3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
3980 LINE(233,19)-(233,30),3:LINE(233,39)-(233,50),3:LINE(233,59)-(233,70),3:LIN
E(233,79)-(233,90),3:LINE(233,99)-(233,110),3:LINE(233,119)-(233,130),3:LINE(233
,139)-(233,150),3
3990 LINE(233,159)-(233,170),3:LINE(233,179)-(233,190),3:LINE(233,199)-(233,210)
,3

```

```

4000 RETURN
4010 ' 6 CUADRO CRISTALINO
4020 LOCATE 1,1,0:COLOR 1,3:PRINT " C R I S T A L I N O  0 . 1 . "
4030 COLOR 2,0
4040 LOCATE 3,2,0:PRINT " 1 - AFAQUIA "
4050 LOCATE 5,2,0:PRINT " 2 - CAT. PRIMITIVA "
4060 LOCATE 7,2,0:PRINT " 3 - CAT. SECUNDARIA "
4070 LOCATE 9,2,0:PRINT " 4 - EXFOLIACION CAPSULAR "
4080 LOCATE 11,2,0:PRINT " 5 - LUXACION "
4090 LOCATE 13,2,0:PRINT " 6 - SUBLUXACION "
4100 LOCATE 15,2,0:PRINT " 7 - HIPOPLASIA "
4110 LOCATE 17,2,0:PRINT " 8 - PRECIPITADOS PRECAPS. "
4120 LOCATE 19,2,0:PRINT " 9 - OTRA ALTERACION "
4130 LOCATE 21,2,0:PRINT " 0 - OTRA ALTERACION "
4140 A=7:B=233:FOR T=19 TO 199 STEP 20:LINE (A,T)-(B,T),3:NEXT
4150 A=7:B=233:FOR T=30 TO 210 STEP 20:LINE (A,T)-(B,T),3:NEXT
4160 LINE(7,19)-(7,30),3:LINE(7,39)-(7,50),3:LINE(7,59)-(7,70),3:LINE(7,79)-(7,9
0),3:LINE(7,99)-(7,110),3:LINE(7,119)-(7,130),3:LINE(7,139)-(7,150),3:LINE(7,159
)-(7,170),3:LINE(7,179)-(7,190),3:LINE(7,199)-(7,210),3
4170 LINE(233,19)-(233,30),3:LINE(233,39)-(233,50),3:LINE(233,59)-(233,70),3:LIN
E(233,79)-(233,90),3:LINE(233,99)-(233,110),3:LINE(233,119)-(233,130),3:LINE(233
,139)-(233,150),3
4180 LINE(233,159)-(233,170),3:LINE(233,179)-(233,190),3:LINE(233,199)-(233,210)
'3
4190 RETURN
4200 ' CAMBIO PROGRAMA
4210 COLOR 0,3:CLS
4220 LOCATE 4,15,0:COLOR 0,3:PRINT " P U L S E  L A  O P C I O N  E L E G I D
A"
4230 LOCATE 7,20:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
4240 LOCATE 9,20:COLOR 1,3:PRINT " 2 - VOLVER AL MENU"
4250 A$=INKEY$
4260 IF A$="1" THEN CHAIN "B:JJJ.BAS"
4270 IF A$="2" THEN CHAIN "B:MENU.BAS",400
4280 GOTO 4250
4290 ' PULSE RETURN
4300 LOCATE 24,40,0:COLOR 2,1:PRINT " PULSE RETURN "
4310 A$=INKEY$
4320 IF A$=CHR$(13) THEN GOTO 4340
4330 GOTO 4310

```

```
4340 LOCATE 24,40,0:COLOR 2,0:PRINT " " ;RETURN
4350 ' TIEMPO
4360 FOR TP=1 TO 100:NEXT
4370 RETURN
4380 COLOR 0,3:CLS
4390 LOCATE 1,1,0 :COLOR 3,1:PRINT " B I O M I C R O S C O P I A      O.I."
4400 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E   L A   O P C I O N   E L E G I D
A"
4410 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS "
4420 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS "
4430 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL "
4440 RETURN
4450 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"DOI":OPEN "O",#1,COD$:GOTO 140
4460 COMMON ACS,NUM$:CHAIN "B:JJJ.BAS",130
```

```

10 IF ACS=111 THEN NU$=DDD$:COD$=NU$+"TIO":GOTO 550
20 COLOR 1,3:CLS:SCREEN 3
30 LOCATE 1,1,0:COLOR 3,1:PRINT " T E N S I O N   I N T R A O C U L A R   T
O N O G R A F I A Y ":LOCATE 2,1,0:COLOR 3,1:PRINT " O F T A L M O D E N A M O
M E T R I A "
40 LOCATE 4,15,0:COLOR 0,3:PRINT " P U L S E   L A   O P C I O N   E L E G I D A
"
50 LOCATE 7,20,0:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS"
60 LOCATE 9,20,0:COLOR 1,3:PRINT " 2 - LEER DATOS"
70 LOCATE 11,20,0:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL"
80 A$=INKEY$
90 IF A$="1" THEN GOTO 130
100 IF A$="2" THEN GOTO 510
110 IF A$="3" THEN CHAIN "B:MENU.BAS",400
120 GOTO 80
130 COLOR 3,1:CLS:LOCATE 10,17,8:COLOR 3,1:INPUT " INTRODUZCA EL NUMERO DE HISTO
RIAL (LUEGO PULSE RETURN) : ",NUM$
140 IF ACS=999 THEN GOTO 2450
150 COLOR 2,0:CLS:GOSUB 810
160 LOCATE 24,38:COLOR 0,1:PRINT " INTRODUZCA LOS DATOS (LUEGO PULSE RETURN)
"
170 A$="TIO"
180 COD$=NUM$+A$
190 OPEN "O",#1,COD$
200 B=42
210 FOR A=4 TO 6 STEP 2
220 LOCATE A,B,8:COLOR 2,0:INPUT "",B$
230 WRITE #1,B$
240 IF A=6 THEN GOTO 260
250 NEXT A
260 B=83
270 FOR A=4 TO 8 STEP 2
280 LOCATE A,B,8:COLOR 2,0:INPUT "",B$
290 WRITE #1,B$
300 IF A=8 THEN GOTO 320
310 NEXT A

```

```

320 LOCATE 10,2,0:COLOR 1,3:PRINT " OFTALMODINAMOMETRIA ":"COLOR
R 2,0:GOSUB 1630:GOSUB 1910
330 'LOCATE 11,2,0:COLOR 1,3:PRINT " CURVA TENSIONAL DIURNA
" "
340 LOCATE 24,38:COLOR 0,0:PRINT "
350 LOCATE 24,38:COLOR 0,1:PRINT " PULSE RETURN "
360 GOSUB 20800
370 GOSUB 12000
380 LOCATE 24,38,0:COLOR 3,0:PRINT " INTRODUZA LA FECHA "
390 LOCATE 3,16,8:COLOR 2,0:INPUT "",B$: WRITE #1,B$
400 CIRCLE (32,190),10,2
410 DIM X(400),Y(400)
420 M=0:B=0
430 LOCATE 24,38:COLOR 1,3:PRINT " DIBUJE LA LINEA (EMPLEE LAS FUNCIONES DE LOS
NUMEROS) "
440 GOSUB 2150
450 GOSUB 12000
460 A=1:B=B+A :WRITE #1,X(B),Y(B)
470 IF B=M-1 THEN CLOSE #1:LOCATE 24,38 :COLOR 0,1:PRINT "PULSE RETURN
N P A R A C O N T I N U A R ";COLOR 2,0 : GOSUB 20800:GOSUB 1510
480 IF X(B)=0 THEN GOTO 460
490 LINE (X(B),Y(B))-(X(B+1),Y(B+1)),3
500 GOTO 460
510 ' LEER DATOS
520 COLOR 1,3:CLS:LOCATE 10,17,8:COLOR 1,3:INPUT " INTRODUZA EL NUMERO DE HISTO
RIAL (LUEGO PULSE RETURN) : ",NUM$
530 A$="TIO"
540 COD$=NUM$+A$
550 OPEN "I",#1,COD$
560 COLOR 2,0:CLS:GOSUB 810
570 B=42
580 FOR A=4 TO 6 STEP 2
590 INPUT #1,B$:LOCATE A,B,8:COLOR 2,0:PRINT B$
600 IF A=6 THEN GOTO 620
610 NEXT A
620 B=83
630 FOR A=4 TO 8 STEP 2
640 INPUT #1,B$:LOCATE A,B,8:COLOR 2,0:PRINT B$
650 IF A=8 THEN GOTO 670

```

660 NEXT A  
 670 GOSUB 1630:GOSUB 2020:'LOCATE 11,2,0:COLOR 1,3:PRINT " C U R V A T E N S  
 I O N A L D I U R N A "  
 680 LOCATE 24,38:COLOR 0,0:PRINT "  
 " LOCATE 24,38:COLOR 0,1:PRINT " P U L S E R E T U R N "  
 690 LOCATE 24,38:COLOR 0,1:PRINT " P U L S E R E T U R N "  
 700 GOSUB 20800  
 710 COLOR 2,0  
 720 GOSUB 12000  
 730 INPUT #1,B\$: LOCATE 3,16,8:COLOR 2,0:PRINT B\$  
 740 GOSUB 23200  
 750 LOCATE 24,38:COLOR 0,1:PRINT " PULSE RETURN "  
 760 CLOSE #1  
 770 GOSUB 20800  
 780 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000  
 790 GOSUB 1510  
 800 END  
 810 , SUBRUTINA CUADRO  
 820 LINE (0,25)-(400,25),1  
 830 LINE (0,65)-(400,65),1  
 840 LINE (0,25)-(-0,65),1  
 850 LINE (310,25)-(310,65),1  
 860 LINE (400,25)-(400,65),1  
 870 LINE (230,25)-(230,65),1  
 880 LINE (230,45)-(400,45),1  
 890 LINE (430,25)-(799,25),1  
 900 LINE (430,85)-(799,85),1  
 910 LINE (430,25)-(430,85),1  
 920 LINE (540,25)-(540,85),1  
 930 LINE (540,45)-(799,45),1  
 940 LINE (540,65)-(799,65),1  
 950 LINE (799,25)-(799,85),1  
 960 LINE (630,25)-(630,85),1  
 970 LOCATE 5,2:COLOR 3,0:PRINT "TENSION INTRAOCULAR (mmHg)"  
 980 LOCATE 4,3:COLOR 3,0:PRINT "O.D."  
 990 LOCATE 6,3:COLOR 3,0:PRINT "O.I."  
 1000 LOCATE 6,56:COLOR 3,0:PRINT "TONOGRAFIA"  
 1010 LOCATE 4,71:COLOR 3,0:PRINT "COEF. R"  
 1020 LOCATE 6,71:COLOR 3,0:PRINT "COEF. C"  
 1030 LOCATE 8,71:COLOR 3,0:PRINT "ERRORES"

```

1040 RETURN
1050 , SUBRUTINA DIBUJO GRAFICO CURVA TENSIONAL DIURNA
1060 COLOR 2,0:CLS :GOTO 1300
1070 LOCATE 24,38:COLOR 0,1:PRINT " UTILICE LAS FUNCIONES DE LOS NUMEROS PARA DI
BUJAR LA CURVA "
1080 LOCATE 1,1,0 :COLOR 1,3:PRINT " CURVA TENSIONAL DIURNA
A"
1090 LOCATE 3,2,0:COLOR 3,0:PRINT "FECHA"
1100 LOCATE 5,2,0:COLOR 3,0:PRINT "HORAS"
1110 LOCATE 7,2,0:COLOR 3,0:PRINT "mmHg"
1120 LOCATE 7,9,0:COLOR 3,0:PRINT "75"
1130 LOCATE 8,9,0:COLOR 3,0:PRINT "70"
1140 LOCATE 9,9,0:COLOR 3,0:PRINT "65"
1150 LOCATE 10,9,0:COLOR 3,0:PRINT "60"
1160 LOCATE 11,9,0:COLOR 3,0:PRINT "55"
1170 LOCATE 12,9,0:COLOR 3,0:PRINT "50"
1180 LOCATE 13,9,0:COLOR 3,0:PRINT "45"
1190 LOCATE 14,9,0:COLOR 3,0:PRINT "40"
1200 LOCATE 15,9,0:COLOR 3,0:PRINT "35"
1210 LOCATE 16,9,0:COLOR 3,0:PRINT "30"
1220 LOCATE 17,9,0:COLOR 3,0:PRINT "25"
1230 LOCATE 18,9,0:COLOR 3,0:PRINT "20"
1240 LOCATE 19,9,0:COLOR 3,0:PRINT "15"
1250 LOCATE 20,9,0:COLOR 3,0:PRINT "10"
1260 LOCATE 21,9,0:COLOR 3,0:PRINT "5"
1270 LOCATE 22,9,0:COLOR 3,0:PRINT "0"
1280 LOCATE 24,38,0:COLOR 0,0:PRINT "

```

```

1290 RETURN
1300 , DIBUJO DE LAS LINEAS
1310 LINE(0,15)-(725,15),1
1320 LINE(0,35)-(725,35),1
1330 LINE(0,55)-(725,55),1
1340 LINE(0,-15)-(-0,220),1
1350 LINE(0,220)-(725,220),1
1360 LINE(0,-15)-(-0,55),1
1370 LINE(0,-15)-(-0,55),3
1380 LINE(100,15)-(100,220),1
1390 LINE(725,15)-(725,220),1
1400 COLOR 3,0:LOCATE 5,17,0:PRINT "06 07 08 09 10 11 12 13 14 15 16 17 18 19 2

```

```

0 21 22 23 24 01 02 03 04 05"
1410 FOR A=147 TO 675 STEP 24:LINE (A,35)-(A,220),1 :NEXT
1420 FOR A=64 TO 220 STEP 2:LINE (100,A)-(725,A),1 :NEXT
1430 FOR A=64 TO 220 STEP 10:LINE (90,A)-(725,A),2 :NEXT
1440 GOTO 1070
1450 END
1460 ' SUBRUTINA "PULSE RETURN PARA CONTINUAR"
1470 PULSE$=INKEY$
1480 IF PULSE$=CHR$(13) THEN GOTO 1500
1490 GOTO 1470
1500 RETURN
1510 IF ACS=999 THEN GOTO 2490
1520 ' SUBRUTINA PARA VOLVER AL MENU PRINCIPAL
1530 SCREEN 3:COLOR 1,3:CLS
1540 LOCATE 1,1: COLOR 3,1:PRINT " PULSE LA OPCION DESEADA "
1550 LOCATE 7,21:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION "
1560 LOCATE 11,21:COLOR 1,3:PRINT " 2 - VOLVER AL MENU PRINCIPAL "
1570 A$=INKEY$
1580 IF A$="1" THEN CLS:CHAIN "B:PPP.BAS"
1590 IF A$="2" THEN CLS: CHAIN "B:MENU.BAS",400
1600 GOTO 1570
1610 COLOR 2,0
1620 RETURN
1630 ' SUBRUTINA OFTALMODINAMOMETRIA
1640 GOTO 1770
1650 LINE (0,125)-(500,125),1
1660 LINE (0,165)-(500,165),1
1670 LINE (0,125)-(0,165),1
1680 LINE (175,125)-(175,165),1
1690 LINE (220,105)-(400,105),1
1700 LINE (500,105)-(500,165),1
1710 LINE (220,105)-(500,105),1
1720 LINE (305,105)-(305,165),1
1730 LINE (400,105)-(400,165),1
1740 LINE (220,105)-(220,165),1
1750 LINE (175,145)-(500,145),1
1760 GOTO 1790
1770 LOCATE 15,2:COLOR 3,0:PRINT "TENSION ART. OFTAL." :LOCATE 14,24,0:COLOR 3,0:
PRINT "O.D." :LOCATE 16,24,0:COLOR 3,0:PRINT "O.I" :LOCATE 12,29,0:COLOR 3,0:PRINT
"SISTOLICA DIASTOLICA G. EFICAZ" :GOTO 1650
1780 ' 2 CUADRO

```

```

1790 GOTO 1890
1800 LINE (0,165)-(400,165),1
1810 LINE (0,205)-(400,205),1
1820 LINE (0,165)-(0,205),1
1830 LINE (175,165)-(175,205),1
1840 LINE (305,165)-(305,205),1
1850 LINE (400,165)-(400,205),1
1860 LINE (220,165)-(220,205),1
1870 LINE (175,185)-(400,185),1
1880 GOTO 1900
1890 LOCATE 19,2:COLOR 3,0:PRINT "TENSION ARTERIAL":LOCATE 18,24,0:COLOR 3,0:PRT
NT "B.D.":LOCATE 20,24,0:COLOR 3,0:PRINT "B.I":GOTO 1800
1900 RETURN
1910 LOCATE 14,30,8:INPUT "",B$:WRITE #1,B$
1920 LOCATE 14,41,8:INPUT "",B$:WRITE #1,B$
1930 LOCATE 14,53,8:INPUT "",B$:WRITE #1,B$
1940 LOCATE 16,30,8:INPUT "",B$:WRITE #1,B$
1950 LOCATE 16,41,8:INPUT "",B$:WRITE #1,B$
1960 LOCATE 16,53,8:INPUT "",B$:WRITE #1,B$
1970 LOCATE 18,30,8:INPUT "",B$:WRITE #1,B$
1980 LOCATE 18,41,8:INPUT "",B$:WRITE #1,B$
1990 LOCATE 20,30,8:INPUT "",B$:WRITE #1,B$
2000 LOCATE 20,41,8:INPUT "",B$:WRITE #1,B$
2010 RETURN
2020 'LEER
2030 INPUT #1,B$:LOCATE 14,30,0:PRINT B$
2040 INPUT #1,B$:LOCATE 14,41,0:PRINT B$
2050 INPUT #1,B$:LOCATE 14,53,0:PRINT B$
2060 INPUT #1,B$:LOCATE 16,30,0:PRINT B$
2070 INPUT #1,B$:LOCATE 16,41,0:PRINT B$
2080 INPUT #1,B$:LOCATE 16,53,0:PRINT B$
2090 INPUT #1,B$:LOCATE 18,30,0:PRINT B$
2100 INPUT #1,B$:LOCATE 18,41,0:PRINT B$
2110 INPUT #1,B$:LOCATE 20,30,0:PRINT B$
2120 INPUT #1,B$:LOCATE 20,41,0:PRINT B$
2130 RETURN
2140 ' SUBRUTINA
2150 REM posicionamiento del cursor en la
2160 REM Y BORRA EL PUNTO ANTERIOR
2170 I=32 :L=190

```

```

2180 PSET( I,L ), 3
2190 A$=INKEY$
2200 IF A$="4" THEN I=I-1:PSET( I,L ), 4:PSET( I+1,L ), 0
2210 IF A$="6" THEN I=I+1:PSET( I,L ), 4:PSET( I-1,L ), 0
2220 IF A$="8" THEN L=L-1:PSET( I,L ), 4:PSET( I,L+1 ), 0
2230 IF A$="2" THEN L=L+1:PSET( I,L ), 4:PSET( I,L-1 ), 0
2240 IF A$="7" THEN I=I-1 : L=L-1:PSET( I,L ), 4:PSET( I+1,L+1 ), 0
2250 IF A$="9" THEN I=I+1 : L=L-1:PSET( I,L ), 4:PSET( I-1,L+1 ), 0
2260 IF A$="1" THEN I=I-1 : L=L+1:PSET( I,L ), 4:PSET( I+1,L-1 ), 0
2270 IF A$="3" THEN I=I+1 : L=L+1:PSET( I,L ), 4:PSET( I-1,L-1 ), 0
2280 IF A$="M" OR A$="m" THEN PSET( X(M),Y(M) ), 4:M=M+1:X(M)=I:Y(M)=L:GOTO 2190
2290 IF A$="F" OR A$="f" THEN M=M+1:X(M)=0:Y(M)=0:GOTO 2310
2300 GOTO 2190
2310 RETURN
2320 ' SUBRUTINA
2330 DIM X(400),Y(400)
2340 T=1
2350 T=T+1
2360 INPUT #1,X(T),Y(T)
2370 IF EOF(1) THEN 2390
2380 GOTO 2350
2390 F=1
2400 F=F+1
2410 IF X(F)=0 OR X(F+1)=0 OR Y(F)=0 OR Y(F+1)=0 THEN GOTO 2400
2420 LINE (X(F),Y(F))-(X(F+1),Y(F+1)),3 :IF F= T-1 THEN RETURN
2430 GOTO 2400
2440 RETURN
2450 L=LEN( NUM$ ):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"TIO":OPEN "0",#1,COD$
2460 COLOR 2,0:CLS:GOSUB 810
2470 LOCATE 24,38:COLOR 0,1:PRINT " INTRODUZA LOS DATOS (LUEGO PULSE RETURN )
"
2480 GOTO 200
2490 COMMON ACS,NUM$:CHAIN "B:PPP.BAS",210

```

```

10 COMMON DDD$,ACS
20 IF ACS=111 THEN GOTO 2630
30 SCREEN 3:COLOR 1,3:CLS:COLOR 3,1:LOCATE 1,1:PRINT " E S Q U E M A   D E   D I
310 DE L C A M P O   V I S U A L "
40 COLOR 3,1:LOCATE 2,1:PRINT " D E L O J O   D E R E C H O "
50 LOCATE 4,15:COLOR 0,3:PRINT " P U L S E L A 0 P C I O N   E L E G I D A "
60 LOCATE 7,20:COLOR 1,3:PRINT " 1 - INTRODUCIR DATOS"
70 LOCATE 9,20:COLOR 1,3:PRINT " 2 - LEER DATOS"
80 LOCATE 11,20:COLOR 1,3:PRINT " 3 - VOLVER AL MENU PRINCIPAL"
90 A$=INKEY$
100 IF A$="1" THEN GOTO 140
110 IF A$="2" THEN GOTO 2630
120 IF A$="3" THEN CHAIN "B:MENU.BAS",400
130 GOTO 90
140 COLOR 3,1:CLS:LOCATE 10,17,8:INPUT " INTRODUZCA EL NUMERO DE HISTORIAL (LUEGO
PULSE RETURN) : ",NUM$"
150 DIM X(500),Y(500),COL(20),SPOT(10),CX(50),CY(50)
160 KEY OFF:CLS:SCREEN 1
170 Z=0:M=0:B=0:C=4:Q=0:ESC=0
180 FOR R=1 TO 900 :NEXT R
190 Z=Z+1
200 CLS:
210 COLOR 2,0:CLS:LOCATE 1,1:COLOR 4,1:PRINT " PULSE LA OPCION ELEGIDA "
220 LOCATE 5,2:COLOR 7,0:PRINT " 1 - DIBUJAR UNA ISOPTERA"
230 LOCATE 7,2:COLOR 7,0:PRINT " 2 - SOMBREAR ALGUNA ZONA (ESCOTOMA)"
240 LOCATE 9,2:COLOR 7,0:PRINT " 3 - DIBUJAR TODO EL CAMPO"
250 A$=INKEY$
260 IF A$="1" THEN GOTO 300
270 IF A$="2" THEN GOTO 420
280 IF A$="3" THEN GOTO 450
290 GOTO 250
300 CLS:COLOR 4,1:PRINT " DIBUJO DE LA ISOPTERA NUMERO ";Z:FOR R=1 TO 500 :NEXT
R:COLOR 2,0
310 GOSUB 1370
320 CLS
330 GOSUB 780

```

```

340 GOSUB 1050
350 GOSUB 1630
360 GOSUB 610
370 A=1:B=B+A
380 IF B=M-1 THEN GOTO 180
390 IF X(B)=0 THEN GOTO 370
400 LINE(X(B),Y(B))-(X(B+1),Y(B+1)),COL(Q)
410 GOTO 370
420 ESC=ESC+1
430 GOSUB 1950
440 CLS
450 SCREEN 1:CLS:LOCATE 10,7,0:COLOR 4,8:PRINT " DIBUJO DE TODO EL CAMPO ":"FOR R
=1 TO 900 :NEXT R
460 CLS:GOSUB 780:PAINT (176,120),8,7:GOSUB 1050:COLOR 2,0
470 Q=1
480 GOSUB 1630
490 R=1
500 IF R=B THEN GOTO 540
510 IF X(R)=0 OR X(R+1)=0 OR Y(R)=0 OR Y(R+1)=0 THEN R=R+2: Q=Q+1: GOSUB 1
520 LINE(X(R),Y(R))-(X(R+1),Y(R+1)),COL(Q)
530 R=R+1:GOTO 500
540 FOR QW=1 TO ESC:PAINT (CX(QW),CY(QW)),0,14:NEXT QW
550 LOCATE 24,2:PRINT "PONER PUNTO CENTRAL ? (S/N)"
560 A$=INKEY$:
570 IF A$="S" THEN X(B+2)=176:Y(B+2)=120:GOTO 600
580 IF A$="N" THEN GOTO 600
590 GOTO 560
600 GOSUB 2430:GOSUB 2930:GOSUB 3000:END
610 REM Posicionamiento del cursor en la
620 REM Y BORRA EL PUNTO ANTERIOR
630 I=176:L=120
640 PSET(I,L),3
650 A$=INKEY$:
660 IF A$="4" THEN I=I-1:PSET(I,L),4:PSET(I+1,L),0
670 IF A$="6" THEN I=I+1:PSET(I,L),4:PSET(I-1,L),0
680 IF A$="8" THEN L=L-1:PSET(I,L),4:PSET(I,L+1),0
690 IF A$="2" THEN L=L+1:PSET(I,L),4:PSET(I,L-1),0
700 IF A$="7" THEN I=I-1 : L=L-1:PSET(I,L),4:PSET(I+1,L+1),0
710 IF A$="9" THEN I=I+1 : L=L-1:PSET(I,L),4:PSET(I-1,L+1),0

```

```

720 IF A$="1" THEN I=I-1 : L=L+1:PSET(I,L),4:PSET(I+1,L-1),0
730 IF A$="3" THEN I=I+1 : L=L+1:PSET(I,L),4:PSET(I-1,L-1),0
740 IF A$="M" OR A$="m" THEN PSET(X(M),Y(M),4:M=M+1:X(M)=I:Y(M)=L:GOTO 650
750 IF A$="F" OR A$="f" THEN M=M+1:X(M)=0:Y(M)=0:GOTO 770
760 GOTO 650
770 RETURN
780 REM SUBRUTINA DIBUJO PANTILLA CAMPO VISUAL
790 LOCATE 1,1,0:PSET(176,120),7
800 FOR D=0 TO 360 STEP 15
810 DRAW "TA=D;NU135"
820 NEXT D
830 FOR I= 0 TO 135 STEP 15
840 CIRCLE STEP(0,0),I,7
850 NEXT I
860 LINE (116,0)-(238,0),7
870 LINE (114,239)-(238,239),7
880 CIRCLE(176,120),15,4
890 PAINT(176,120),0,4
900 CIRCLE(176,120),15,7
910 RETURN
920 ' SUBRUTINA COLOCACION DEL CUADRO DE INTENSIDADES LUMINICAS Y
930 ' TAMAÑO DEL SPOT
940 SCREEN 1
950 LOCATE 19,1:PRINT "I"
960 LOCATE 20,1:PRINT "II"
970 LOCATE 21,1:PRINT "III"
980 LOCATE 22,1:PRINT "IV"
990 LOCATE 18,4:PRINT "4"
1000 LOCATE 18,5:PRINT "3"
1010 LOCATE 18,6:PRINT "2"
1020 LOCATE 18,7:PRINT "1"
1030 LINE (0,169)-(56,169),15
1040 LINE (0,179)-(56,179),15
1050 LINE (0,189)-(56,189),15
1060 LINE (0,199)-(56,199),15
1070 LINE (0,209)-(56,209),15
1080 LINE (0,219)-(56,219),15
1090 LINE (0,219)-(0,219),15
1100 LINE (23,169)-(23,219),15
1110 LINE (32,169)-(32,219),15

```

```

1120 LINE (40,169)-(40,219),15
1130 LINE (48,169)-(48,219),15
1140 LINE (56,169)-(56,219),15
1150 LINE (0,169)-(23,179),15
1160 LINE (0,179)-(23,169),15
1170 LOCATE 1,1 :PRINT ""
1180 RETURN
1190 'SUBRUTINA ELECCION DEL SPOT,FILTRO Y COLOR
1200 PRINT
1210 PRINT:COLOR 7
1220 PRINT "SPOT ..... VI , III , II , I "
1230 PRINT
1240 PRINT "FILTRO ..... 4 , 3 , 2 , 1"
1250 PRINT
1260 PRINT "COLOR ..... 1 = MARRON"
1270 PRINT " 2 = AZUL"
1280 PRINT " 3 = ROJO"
1290 PRINT " 4 = VERDE"
1300 PRINT " 5 = AMARILLO ( SOLO PARA DIBUJAR ESCOTOMAS )"
1310 PRINT
1320 PRINT
1330 PRINT
1340 COLOR 4 :PRINT "INSTRUCCIONES: CUALQUIERA DE LOS DATOS QUE INTRODUZCA A C
ONTINUACION NO PUEDE SER UN NUMERO ROMANO"
1350 PRINT "(PULSE RETURN DESPUES )"
1360 PRINT :COLOR 7
1370 Q=Q+1
1380 INPUT "SPOT (NO LO PONGA CON NUMERACION ROMANA) : ",SPOT(Q)
1390 INPUT "FILTRO: ",FILTRO(Q)
1400 INPUT "COLOR: ",A
1410 IF A=1 THEN COL(Q)=6
1420 IF A=2 THEN COL(Q)=1
1430 IF A=3 THEN COL(Q)=4
1440 IF A=4 THEN COL(Q)=2
1450 IF A=5 THEN COL(Q)=14
1460 COLOR 2:RETURN
1470 , SUBRUTINA DIBUJO DE LOS COLORES EN EL CUADRO INFERIOR
1480 IF SPOT(Q) = 4 AND FILTRO(Q) =4 AND COL(Q)<>14 THEN PAINT ( 24,210 ),COL
(Q),15
1490 IF SPOT(Q) = 4 AND FILTRO(Q) =3 AND COL(Q)<>14 THEN PAINT ( 33,210 ),COL(Q)

```

```

      '15   IF SPOT(Q)=4      AND FILTRO(Q)=2 AND COL(Q)<>14 THEN PAINT (41,210),COL(Q),
1500
      15   IF SPOT(Q) = 4    AND FILTRO(Q)=1 AND COL(Q)<>14 THEN PAINT (49,210),COL(Q
1510
      )'15   IF SPOT(Q) = 3    AND FILTRO(Q)=4 AND COL(Q)<>14 THEN PAINT (24,200),COL(
1520
      ),'15   IF SPOT(Q) = 3    AND FILTRO(Q)=3 AND COL(Q)<>14 THEN PAINT (33,200),COL(
1530
      Q),'15   IF SPOT(Q) = 3    AND FILTRO(Q)=2 AND COL(Q)<>14 THEN PAINT (41,200),COL(
1540
      Q),'15   IF SPOT(Q) = 3    AND FILTRO(Q)=1 AND COL(Q)<>14 THEN PAINT (49,200),COL(
1550
      Q),'15   IF SPOT(Q) = 2    AND FILTRO(Q)=4 AND COL(Q)<>14 THEN PAINT (24,190),COL(
1560
      Q),'15   IF SPOT(Q) = 2    AND FILTRO(Q)=3 AND COL(Q)<>14 THEN PAINT (33,190),COL(Q
1570
      ),'15   IF SPOT(Q) = 2    AND FILTRO(Q)=2 AND COL(Q)<>14 THEN PAINT (41,190),COL(Q
1580
      ),'15   IF SPOT(Q) = 2    AND FILTRO(Q)=1 AND COL(Q)<>14 THEN PAINT (49,190),COL(Q
1590
      ),'15   IF SPOT(Q) = 1    AND FILTRO(Q)=4 AND COL(Q)<>14 THEN PAINT (24,180),COL(Q
1600
      ),'15   IF SPOT(Q) = 1    AND FILTRO(Q)=3 AND COL(Q)<>14 THEN PAINT (33,180),COL(Q
1610
      ),'15   IF SPOT(Q) = 1    AND FILTRO(Q)=2 AND COL(Q)<>14 THEN PAINT (41,180),COL(Q
1620
      ),'15   IF SPOT(Q) = 1    AND FILTRO(Q)=1 AND COL(Q)<>14 THEN PAINT (49,180),COL(Q
1630
      ),'15   IF COL(Q) = 14 GOTO 1660
1640
1650 RETURN
1660 IF SPOT(Q) = 4 AND FILTRO(Q)=4 THEN LINE (23,209)-(32,219),15:PAINT (30
1670 ,COL(Q),15
      )'211,IF SPOT(Q) = 3 AND FILTRO(Q)=4 THEN LINE(23,199)-(32,209),15:PAINT (30,2
      01),COL(Q),15
1680 ,COL(Q),15
      )'211,IF SPOT(Q)=2 AND FILTRO(Q)=4 THEN LINE(23,189)-(32,199),15:PAINT (30,19
      1),COL(Q),15
1690 ,COL(Q),15
      )'211,IF SPOT(Q) = 1 AND FILTRO(Q)=4 THEN LINE(23,179)-(32,189),15:PAINT (30,
      181),COL(Q),15
1700 ,COL(Q),15
      )'211,IF SPOT(Q) = 4 AND FILTRO(Q)=3 THEN LINE(32,209)-(40,219),15:PAINT (38,
      211),COL(Q),15

```

```

1710 IF SPOT(Q) = 3 AND FILTRO(Q)=3 THEN LINE(32,199)-(40,209),15:PAINT (38
'201),COL(Q),15
1720 IF SPOT(Q) = 2 AND FILTRO(Q)=3 THEN LINE(32,189)-(40,199),15:PAINT (38
'191),COL(Q),15
1730 IF SPOT(Q) = 1 AND FILTRO(Q)=3 THEN LINE(32,179)-(40,189),15:PAINT (38
'181),COL(Q),15
1740 IF SPOT(Q) = 4 AND FILTRO(Q)=2 THEN LINE(40,209)-(48,219),15:PAINT (46,
211),COL(Q),15
1750 IF SPOT(Q) = 3 AND FILTRO(Q)=2 THEN LINE(40,199)-(48,209),15:PAINT (46,
201),COL(Q),15
1760 IF SPOT(Q) = 2 AND FILTRO(Q)=2 THEN LINE(40,189)-(48,199),15:PAINT (46,
191),COL(Q),15
1770 IF SPOT(Q) = 1 AND FILTRO(Q)=2 THEN LINE(40,179)-(48,189),15:PAINT (46,
181),COL(Q),15
1780 IF SPOT(Q) = 4 AND FILTRO(Q)=1 THEN LINE(48,209)-(56,219),15:PAINT (54,2
11),COL(Q),15
1790 IF SPOT(Q) = 3 AND FILTRO(Q)=1 THEN LINE(48,199)-(56,209),15:PAINT (54,1
01),COL(Q),15
1800 IF SPOT(Q) = 2 AND FILTRO(Q)=1 THEN LINE(48,189)-(56,199),15:PAINT (54,1
91),COL(Q),15
1810 IF SPOT(Q) = 1 AND FILTRO(Q)=1 THEN LINE(48,179)-(56,189),15:PAINT (54,1
81),COL(Q),15
1820 RETURN
1830 'SUBRUTINA DIBUJO DEL COLOR DE CADA ISOPTERA
1840 'DIBUJO DE TODO EL CAMPO
1850 CLS:LOCATE 10,7:PRINT "DIBUJO DE TODO EL CAMPO":FOR R=1 TO 900 :NEXT R
1860 CLS:GOSUB 780:GOSUB 1050
1870 Q=1
1880 GOSUB 1630
1890 R=1
1900 IF R=B THEN Q=Q+1:RETURN
1910 IF X(R)=0 OR X(R+1)=0 OR Y(R)=0 OR Y(R+1)=0 THEN R=R+2: Q=Q+1: GOSUB
1630:GOTO 1900
1920 LINE(X(R),Y(R))-(X(R+1),Y(R+1)),COL(Q)
1930 R=R+1:GOTO 1900
1940 RETURN
1950 'SURUTINA DIBUJO DE ESCOTOMAS
1960 CLS:COLOR 4,1:PRINT "DIBUJO DEL ESCOTOMA " :FOR R=1 TO 500 :NEXT R:COLOR 2
0
1970 GOSUB 1370

```

```

1980 CLS
1990 GOSUB 1840
2000 GOSUB 2260
2010 A=1:B=B+A
2020 IF B=M-1 THEN GOTO 2060
2030 IF X(B)=0 THEN GOTO 2010
2040 LINE(X(B),Y(B))-(X(B+1),Y(B+1)),14
2050 GOTO 2010
2060 LOCATE 24,2:COLOR 2,0:PRINT "PUNTO SOMBREAR"
2070 GOSUB 2090
2080 GOTO 180
2090 'DIBUJAR EL ESCOTOMA
2100 REM posicionamiento del cursor en la
2110 REM Y BORRA EL PUNTO ANTERIOR
2120 I=176:L=120
2130 PSET(I,L),3
2140 A$=INKEY$
2150 IF A$="4" THEN I=I-1:PSET(I,L),4:PSET(I+1,L),0
2160 IF A$="6" THEN I=I+1:PSET(I,L),4:PSET(I-1,L),0
2170 IF A$="8" THEN L=L-1:PSET(I,L),4:PSET(I,L+1),0
2180 IF A$="2" THEN L=L+1:PSET(I,L),4:PSET(I,L-1),0
2190 IF A$="7" THEN I=I-1 : L=L-1:PSET(I,L),4:PSET(I+1,L+1),0
2200 IF A$="9" THEN I=I+1 : L=L-1:PSET(I,L),4:PSET(I-1,L+1),0
2210 IF A$="1" THEN I=I-1 : L=L+1:PSET(I,L),4:PSET(I+1,L-1),0
2220 IF A$="3" THEN I=I+1 : L=L+1:PSET(I,L),4:PSET(I-1,L-1),0
2230 IF A$="M" OR A$="m" THEN CX(ESC)=I:CY(ESC)=L:GOTO 2250
2240 GOTO 2140
2250 RETURN
2260 REM posicionamiento del cursor en la
2270 REM Y BORRA EL PUNTO ANTERIOR
2280 I=176:L=120
2290 PSET(I,L),3
2300 A$=INKEY$
2310 IF A$="4" THEN I=I-1:PSET(I,L),4:PSET(I+1,L),0
2320 IF A$="6" THEN I=I+1:PSET(I,L),4:PSET(I-1,L),0
2330 IF A$="8" THEN L=L-1:PSET(I,L),4:PSET(I,L+1),0
2340 IF A$="2" THEN L=L+1:PSET(I,L),4:PSET(I,L-1),0
2350 IF A$="7" THEN I=I-1 : L=L-1:PSET(I,L),4:PSET(I+1,L+1),0
2360 IF A$="9" THEN I=I+1 : L=L-1:PSET(I,L),4:PSET(I-1,L+1),0
2370 IF A$="1" THEN I=I-1 : L=L+1:PSET(I,L),4:PSET(I+1,L-1),0

```

```

2380 IF A$="3" THEN I=I+1 : L=L+1:PSET(I,L),4:PSET(I-1,L-1),0
2390 IF A$="M" OR A$="m" THEN PSET(X(M),Y(M)),4:M=M+1:X(M)=I:Y(M)=I:GOTO 2300
2400 IF A$="F" OR A$="f" THEN M=M+1:X(M)=0:Y(M)=0:GOTO 2420
2410 GOTO 2300
2420 RETURN
2430 'GRABAR DATOS EN FICHERO
2440 IF ACS=999 THEN GOTO 2610
2450 A$="CAM":COD$=NUM$+A$
2460 OPEN "O",#1,COD$
2470 WRITE #1,Z,ESC,B
2480 FOR G=1 TO Z
2490 WRITE #1,SPOT(G),FILTRO(G),COL(G)
2500 NEXT G
2510 FOR G=1 TO B
2520 WRITE #1,X(G),Y(G)
2530 NEXT G
2540 FOR G=1 TO ESC
2550 WRITE #1,CX(G),CY(G)
2560 NEXT G
2570 WRITE #1,X(B+1),Y(B+1),X(B+2),Y(B+2)
2580 CLOSE #1
2590 IF ACS=999 THEN GOTO 2620
2600 RETURN
2610 L=LEN(NUM$):NU$=RIGHT$(NUM$,L-1):COD$=NU$+"CAM":OPEN "O",#1,COD$:GOTO 2470
2620 COMMON ACS,NUM$:CHAIN "B:QOI.BAS",220
2630 'LEER LOS DATOS Y DIBUJARLOS
2640 DIM SPOT(10),FILTRO(10),COL(20),X(150),Y(150),CX(50),CY(50)
2650 IF ACS=111 THEN NUM$=DDDS$:GOTO 2670
2660 SCREEN 3:COLOR 1,3:CLS:LOCATE 10,17,8:INPUT "INTRODUZCA EL NUMERO DE HISTORIAL (LUEGO PULSE RETURN) :" ,NUM$ 
2670 SCREEN 1:COLOR 4,8:A$="CAM":COD$=NUM$+A$
2680 OPEN "I",#1,COD$
2690 INPUT #1,Z,ESC,B
2700 FOR G=1 TO Z
2710 INPUT #1,SPOT(G),FILTRO(G),COL(G)
2720 NEXT G
2730 FOR G=1 TO B
2740 INPUT #1,X(G),Y(G)
2750 NEXT G

```

```

2760 FOR G=1 TO ESC
2770 INPUT #1,CX(G),CY(G)
2780 NEXT G
2790 SCREEN 1:CLS:LOCATE 10,7:COLOR 4,8:PRINT " DIBUJO DE TODO EL CAMPO " :FOR
2800 TO 900 :NEXT R
2800 CLS:GOSUB 780:PAINT (176,120),8,7:GOSUB 1050:COLOR 2,0
2810 Q=1
2820 GOSUB 1630
2830 R=1 THEN GOTO 2880
2840 IF X(R)=B THEN GOTO 2880
2850 IF X(R+1)=0 OR X(R+1)=0 OR Y(R)=0 OR Y(R+1)=0 THEN R=R+2: Q=Q+1: GOSUB
1630:GOTO 2840
2860 LINE(X(R),Y(R))-(X(R+1),Y(R+1)),COL(Q)
2870 R=R+1:GOTO 2840
2880 FOR QW=1 TO ESC:PAINT (CX(QW),CY(QW),0,14:NEXT QW
2890 INPUT #1,X(B+1),Y(B+1),X(B+2),Y(B+2)
2900 IF X(B+2)=176 THEN PSET(176,120),5
2910 CLOSE #1 :IF CONTROL=33 THEN GOTO 41000
2920 GOSUB 3110:GOSUB 3000:END
2930 ' SUBRUTINA PULSE RETURN
2940 LOCATE 24,1:COLOR 2,0:PRINT "
2950 LOCATE 24,10:COLOR 2,0:PRINT " PULSE RETURN"
2960 A$=INKEY$ THEN RETURN
2970 IF A$=CHR$(13) THEN RETURN
2980 GOTO 2960
2990 RETURN
3000 ' SUBRUTINA VOVER MENU
3010 IF ACS=111 THEN CHAIN "B:MENU.BAS",2000
3020 SCREEN 3:COLOR 1,3:CLS
3030 LOCATE 1,1:COLOR 3,1:PRINT " P U L S E L A O P C I O N E L E C I D A
" "CONTINUAR LA SESSION"
3040 LOCATE 7,21:COLOR 1,3:PRINT " 1 - CONTINUAR LA SESSION"
3050 LOCATE 11,21:COLOR 1,3:PRINT " 2 - VOLVER AL MENU PRINCIPAL"
3060 A$=INKEY$ THEN CHAIN "B:OQI.BAS"
3070 IF A$="1" THEN CHAIN "B:OQI.BAS"
3080 IF A$="2" THEN CHAIN "B:MENU.BAS"
3090 GOTO 3060
3100 RETURN
3110 ' subrutina exploracion eje
3120 LOCATE 24,5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "

```

```

3130 A$=INKEY$ OR A$="S" THEN GOTO 3170
3140 IF A$="S" OR A$="N" THEN GOSUB 3000
3150 IF A$="N" OR A$="n" THEN GOSUB 3000
3160 GOTO 3130
3170 LOCATE 24, 5:COLOR 4,7:PRINT " EN SECTION (S/N)
3180 A$=INKEY$
3190 IF A$="S" OR A$="s" THEN GOTO 3270
3200 IF A$="N" OR A$="n" THEN GOTO 3220
3210 GOTO 3180
3220 LOCATE 24, 5:COLOR 4,7:PRINT " EN RELIEVE (S/N)
3230 A$=INKEY$
3240 IF A$="S" OR A$="s" THEN GOTO 3790
3250 IF A$="N" OR A$="n" THEN RETURN
3260 GOTO 3230
3270 LOCATE 24, 5:COLOR 4,7:PRINT " GRADO /HORIZONTAL (G/H)
3280 A$=INKEY$
3290 IF A$="G" OR A$="g" THEN CHAIN "B:GRADO.BAS":GOTO 16700
3300 IF A$="H" OR A$="h" THEN GOTO 30000
3310 GOTO 3280
3320 E=0:M=0 : I=23:L= 23:CIRCLE (I,L),10,4:PAINT (I,L),0,4
3330 LOCATE 24,1:PRINT "
3340 LOCATE 24,1:PRINT " MOVER CURSOR
3350 A$=INKEY$
3360 IF A$="4" THEN I=I-1:PSET(I,L),4:PSET(I+1,L),0
3370 IF A$="6" THEN I=I+1:PSET(I,L),4:PSET(I-1,L),0
3380 IF A$="8" THEN L=L-1:PSET(I,L),4:PSET(I,L+1),0
3390 IF A$=="2" THEN L=L+1:PSET(I,L),4:PSET(I,L-1),0
3400 IF A$="7" THEN I=I-1 : L=L-1:PSET(I,L),4:PSET(I+1,L+1),0
3410 IF A$="9" THEN I=I+1 : L=L-1:PSET(I,L),4:PSET(I-1,L+1),0
3420 IF A$="1" THEN I=I-1 : L=L+1:PSET(I,L),4:PSET(I+1,L-1),0
3430 IF A$="3" THEN I=I+1 : L=L+1:PSET(I,L),4:PSET(I-1,L-1),0
3440 IF A$="M" OR A$="m" THEN PSET(I,L),4:M=M+1:X(M)=I:Y(M)=L:GOTO 3480
3450 IF A$="F" OR A$="f" THEN M=M+1:X(M)=0:Y(M)=0:GOTO 3500
3460 IF A$="C" OR A$="c" THEN I=I-176:L= 74 :M=M+1:X(M)=I:Y(M)=L:I=I-176:L=GOTO
3480
3490 LOCATE 24,1:PRINT "
3480 LOCATE 24,1:INPUT "COLOR :" ,CCOL$(M):LOCATE 24,1:PRINT "CONTINUE":GOTO 3350
3490 LOCATE 24,1:COLOR 0,8:CLS
3500 SCREEN 1:COLOR 0,8:CLS
3510 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "

```

```

3520 LINE ( 41,194)-(311,194),4
3530 LINE ( 41, 50)-(311, 50),4
3540 LINE ( 41, 50)-(-41,194),4
3550 LINE (311, 50)-(311,194),4
3560 I=0
3570 I=I+1
3580 IF X(I)=0 THEN GOTO 3650
3590 IF CCOL$(I)="M" THEN YY(I)=170 :GOTO 3570
3600 IF CCOL$(I)="A" THEN YY(I)=146 :GOTO 3570
3610 IF CCOL$(I)="R" THEN YY(I)=122 :GOTO 3570
3620 IF CCOL$(I)="V" THEN YY(I)= 98 :GOTO 3570
3630 IF CCOL$(I)="N" THEN YY(I)=180 :GOTO 3570
3640 IF CCOL$(I)="C" THEN YY(I)= 74 :COLOR 2,0:GOTO 3570
3650 FOR Z=1 TO 1-2
3660 IF X(Z+1)=0 THEN GOTO 17440
3670 LINE ( X(Z),YY(Z))- ( X(Z+1),YY(Z+1) ),4
3680 NEXT Z
3690 LINE(41,YY(1))-(X(1),YY(1)),4
3700 LINE(X(I-1),YY(I-1))-(311,YY(I-1)),4
3710 PAINT (42,54),0,4
3720 PAINT (12,14),7,4
3730 LOCATE 24, 5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
3740 A$=INKEY$
3750 IF A$="S" THEN GOTO 3780
3760 IF A$="N" THEN GOSUB 3000
3770 GOTO 3740
3780 GOTO 2670
3790 LOCATE 24, 5:COLOR 4,7:PRINT " CALCULOS ALTA RESOLUCION "
3800 DIM L(R)
3810 FOR I=1 TO R
3820 L(I)=Y(I)
3830 NEXT I
3840 FOR I=2 TO R
3850 FOR J=1 TO I-1
3860 IF L(J)<L(I) THEN 3930
3870 X=L(I)
3880 FOR K=I TO J+1 STEP -1
3890 L(K)=L(K-1)
3900 NEXT K
3910 L(J)=X
3920 GOTO 3940

```

```

3930 NEXT J
3940 NEXT I
3950 ' TERMINADA LA ORDENACION
3960 ' BUSQUEDA DEL VALOR MENOR QUE NO ES CERO
3970 H=1
3980 IF L(H)=0 THEN H=H+1 :GOTO 3980
3990 IF GGG=5 THEN GOTO 4030
4000 VPY=L(H) :VGY=L(R)
4010 FOR I=1 TO R:L(I)=X(I) :NEXT I
4020 GGG=5:GOTO 3840
4030 VPX=L(H):VGX=L(R)
4040 GOTO 4570
4050 LOCATE 24, 5:COLOR 4,7:INPUT "
) -(20,L-1),4
4060 LOCATE 24, 5:COLOR 4,7:PRINT "
4070 A$=INKEY$
4080 IF A$="S" THEN GOTO 4110
4090 IF A$="N" THEN GOTO 4050
4100 GOTO 4070
4110 LOCATE 24, 5:COLOR 4,7:PRINT "
4120 A$=INKEY$
4130 IF A$="M" THEN QQQ=6 :GOTO 4180
4140 IF A$="A" THEN QQQ=1 :GOTO 4180
4150 IF A$="R" THEN QQQ=4 :GOTO 4180
4160 IF A$="V" THEN QQQ=2 :GOTO 4180
4170 GOTO 4120
4180 LOCATE 24, 5:COLOR 4,7:PRINT "
4190 COLOR 2,0:I=0:M=350:B=1
4200 FOR R=1 TO M
4210 PSET(R,L):AA(B)=POINT(R+1,L)
4220 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)
=5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
4230 NEXT R
4240 'LECTURA DE DATOS FOR H=1 TO B :PRINT X(H);Y(H);AA(H):NEXT
4250 GOTO 4270
4260 ' SI EL ANTERIOR ES
4270 SCREEN 1:COLOR 0,8:CLS
4280 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "
4290 LINE (41,194)-(311,194),4
4300 LINE (41, 50)-(311, 50),4

```

```

4310 LINE (41, 50)-(41, 194),4
4320 LINE (311, 50)-(311, 194),4
4330 I=0
4340 I=I+1
4350 IF X(I)=0 THEN GOTO 4430
4360 IF AA(I)=14 THEN AA(I)=QQQ
4370 IF AA(I)=6 THEN YY(I)=170:GOTO 4340
4380 IF AA(I)=1 THEN YY(I)=146:GOTO 4340
4390 IF AA(I)=4 THEN YY(I)=122:GOTO 4340
4400 IF AA(I)=2 THEN YY(I)=98:GOTO 4340
4410 IF AA(I)=0 THEN YY(I)=180:GOTO 4340
4420 IF AA(I)=5 THEN YY(I)=74 :GOTO 4340
4430 FOR Z=1 TO 1-2
4440 IF X(Z)=0 OR X(Z+1)=0 THEN GOTO 4470
4450 LINE(X(Z),YY(Z))-(X(Z+1),YY(Z+1)),4
4460 NEXT Z
4470 LINE(41,YY(1))-(X(1),YY(1)),4
4480 LINE(X(I-1),YY(I-1))-(311,YY(I-1)),4
4490 PAINT (42,54),0,4
4500 PAINT (12,14),7,4
4510 LOCATE 24, 5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
4520 A$=INKEY$
4530 IF A$="S" THEN GOTO 4560
4540 IF A$="N" THEN GOSUB 3000
4550 GOTO 4520
4560 GOTO 2670
4570 GOTO 4610
4580 LOCATE 24,5:COLOR 4,7:PRINT " ESPERE UN MOMENTO "
4590 COMMON VPY, VGY, VPX, VGX, TTT
4600 CHAIN "B:ESPAC.BAS"
4610 LOCATE 24,5:COLOR 4,7:PRINT " COLOR "
4620 A$=INKEY$
4630 IF A$="A" THEN TTT=1:GOTO 4580
4640 IF A$="V" THEN TTT=2:GOTO 4580
4650 IF A$="R" THEN TTT=4 :GOTO 4580
4660 IF A$="M" THEN TTT=6 :GOTO 4580
4670 GOTO 4620
4680 DIM HX(40),HY(40),CLL(10):GOTO 4800
4690 LOCATE 24, 5:COLOR 4,7:INPUT "
4700 IF CCC$="M" THEN CLL(PP)=6
                                         ", CCC$:PP=PP+1
                                         " COLOR

```

```

4710 IF CCC$ = "A" THEN CLL(PP)=1
4720 IF CCC$ = "R" THEN CLL(PP)=4
4730 IF CCC$ = "V" THEN CLL(PP)=2
4740 GOTO 4790 : LOCATE 24, 5: COLOR 4, 7: PRINT " OTRO ESCOTOMA (S/N)
4750 A$=INKEY$
4760 IF A$ = "S" THEN PP=PP+1:GOTO 4800
4770 IF A$ = "N" THEN GOTO 4790
4780 GOTO 4750
4790 GOTO 4940
4800 I=176:L=120:LOCATE 24, 5: COLOR 4, 7: PRINT "
4810 PSET(I,L),3
4820 A$=INKEY$
4830 IF A$ = "4" THEN I=I-1:PSET(I,L),4:PSET(I+1,L),0
4840 IF A$ = "6" THEN I=I+1:PSET(I,L),4:PSET(I-1,L),0
4850 IF A$ = "8" THEN L=L-1:PSET(I,L),4:PSET(I,L+1),0
4860 IF A$ = "2" THEN L=L+1:PSET(I,L),4:PSET(I,L-1),0
4870 IF A$ = "7" THEN I=I-1 : L=L-1:PSET(I,L),4:PSET(I+1,L+1),0
4880 IF A$ = "9" THEN I=I+1 : L=L-1:PSET(I,L),4:PSET(I-1,L+1),0
4890 IF A$ = "1" THEN I=I-1 : L=L+1:PSET(I,L),4:PSET(I+1,L-1),0
4900 IF A$ = "3" THEN I=I+1 : L=L+1:PSET(I,L),4:PSET(I-1,L-1),0
4910 IF A$ = "M" OR A$ = "m" THEN PSET(HX(SS),HY(SS)),4:SS=SS+1:HGX(SS)=I:HGX(SS)=L:GO
TO 4820
4920 IF A$ = "F" OR A$ = "f" THEN SS=SS+1:HGX(SS)=0:HGX(SS)=0:GOTO 4690
4930 GOTO 4820
4940 CONTROL=33 : GOTO 2670
4950 R=1
4960 A=1:C=C+A
4970 IF C=SS-1 THEN GOTO 5010
4980 IF HX(C)=0 THEN R=R+1:GOTO 4960
4990 LINE(HX(C),HY(C))-(HX(C+1),HY(C+1)),CLL(R)
5000 GOTO 4960
5010 GOTO 4580

```

```

10 COMMON VPY, VGY, VPX, VGX, TIT
20 DIM AA(1666), X(1666), LL(1666)
30 COLOR 2, 0 :B=2 :MAS=0
40 GOSUB 410
50 FOR U=T TO M STEP P
60 FOR R=VPX-2 TO VGX+2
70 PSET(R, U) :AA(B)=POINT(R+1, U)
80 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=6 OR AA(B)=0 OR AA(B)=14 OR AA(B)=5
THEN X(B)=POINT(0)+1+MAS :B=B+1
90 NEXT R
100 MAS=MAS+.2 :X(B)=1 :AA(B)=111 :B=B+1
110 NEXT U
120 X(B)=2 :AA(B)=222
130 SCREEN 1:COLOR 2,0:CLS
140 LOCATE 24,5 :COLOR 4,0:PRINT "      ESPERE UN MOMENTO"
150 I=0 :MAS=0
160 I=I+1 :MAS=MAS+.2
170 IF AA(I)=222 THEN GOTO 260
180 IF AA(I)=14 THEN AA(I)=TTT
190 IF AA(I)=6 THEN AA(I)=100+MAS :GOTO 160
200 IF AA(I)=1 THEN AA(I)=80+MAS :GOTO 160
210 IF AA(I)=4 THEN AA(I)=60+MAS :GOTO 160
220 IF AA(I)=2 THEN AA(I)=40+MAS :GOTO 160
230 IF AA(I)=0 THEN AA(I)=120+MAS :GOTO 160
240 IF AA(I)=5 THEN AA(I)=20+MAS :GOTO 160
250 IF AA(I)=111 THEN AA(I)=0 :GOTO 160
260 COLOR 2,0:CLS
270 Z=1:COL=4:LINE (0,100)-(X(2),AA(2)),COL
280 Z=Z+1
290 IF X(Z)=2 THEN GOTO 340
300 IF X(Z)=1 THEN GOTO 280
310 IF X(Z+1)=1 THEN LINE(X(Z),AA(Z))-(384,AA(Z)),COL:PAINT(256,239),0,COL :LINE
(0,AA(Z+2))-(X(Z+2),AA(Z+2)),COL:Z=Z+1:GOTO 290
320 LINE(X(Z),AA(Z))-(X(Z+1),AA(Z+1)),COL
330 GOTO 280

```

```
340 PAINT (1 ,1 ) ,5,4
350 PAINT (1 ,239 ) ,13,4
360 LOCATE 24, 5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
370 A$=INKEY$
380 IF A$="S" THEN CHAIN "B:QQQ.BAS",13000
390 IF A$="N" THEN CHAIN "B:MENU.BAS"
400 GOTO 370
410 LOCATE 24,5:COLOR 2,0:PRINT " CARA ANT O POST (A/P) "
420 A$=INKEY$
430 IF A$="A" THEN T=120:P=+2:M=VGY+2:RETURN
440 IF A$="P" THEN T=120:P=-2:M=VPY-2:RETURN
450 GOTO 420
```

```

10 DIM AA(150),X(150),Y(150),YY(150),SX(150),SY(150) GRADO : " ,L
20 LOCATE 24, 5:COLOR 4,7:INPUT " "
30 LOCATE 24, 5:COLOR 4,7:PRINT " ESTA SEGURO (S/N)
40 A$=INKEY$
50 IF A$="S" THEN GOTO 80
60 IF A$="N" THEN GOTO 20
70 GOTO 40
80 ' PONER APERTURA DEL FICHERO SEGUN EL GRADO
90 IF L=0 THEN OPEN "I",#1,"B:0GR":GOTO 220
100 IF L=15 THEN OPEN "I",#1,"B:15GR":GOTO 220
110 IF L=30 THEN OPEN "I",#1,"B:30GR":GOTO 220
120 IF L=45 THEN OPEN "I",#1,"B:45GR":GOTO 220
130 IF L=60 THEN OPEN "I",#1,"B:60GR":GOTO 220
140 IF L=75 THEN OPEN "I",#1,"B:75GR":GOTO 220
150 IF L=90 THEN OPEN "I",#1,"B:90GR":GOTO 220
160 IF L=105 THEN OPEN "I",#1,"B:105GR":GOTO 220
170 IF L=120 THEN OPEN "I",#1,"B:120GR":GOTO 220
180 IF L=135 THEN OPEN "I",#1,"B:135GR":GOTO 220
190 IF L=150 THEN OPEN "I",#1,"B:150GR":GOTO 220
200 IF L=165 THEN OPEN "I",#1,"B:165GR":GOTO 220
210 IF L<>15 OR L<>30 OR L<>45 OR L<>60 OR L<>75 OR L<>90 OR L<>105 OR L
<>120 OR L<>135 OR L<>150 OR L<>165 THEN GOTO 20
220 LOCATE 24, 5:COLOR 4,7:PRINT " COLOR ESCOTOMA"
230 A$=INKEY$
240 IF A$="M" THEN QQQ=6 :GOTO 290
250 IF A$="A" THEN QQQ=1 :GOTO 290
260 IF A$="R" THEN QQQ=4 :GOTO 290
270 IF A$="V" THEN QQQ=2 :GOTO 290
280 GOTO 230
290 IF L=0 THEN GOTO 840
300 IF L=90 THEN GOTO 950
310 IF L=15 OR L=30 OR L=45 OR L=60 OR L=75 THEN GOTO 1350
320 IF L=105 OR L=120 OR L=135 OR L=150 OR L=165 THEN GOTO 1890
330 GOTO 290
340 LOCATE 24, 5:COLOR 4,7:PRINT "
350 COLOR 2,0:1=0:M=400:B=1

```

```

360 FOR F=1 TO M
370 IF EOF(1) THEN GOTO 420
380 INPUT #1,R,J
390 PSET(R-1,J-1),7:AA(B)=POINT(R,J)=0 OR AA(B)=4 OR AA(B)=6 OR AA(B)=14 OR AA(B)=
400 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
410 NEXT F
420 IF CONTA=2 THEN GOTO 470
430 CLOSE
440 CONTA=2
450 GOTO 80
460 GOTO 470
470 GOSUB 780
480 SCREEN 1:COLOR 0,8:CLS
490 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "
500 LINE (41,194)-(311,194),4
510 LINE (41, 50)-(311, 50),4
520 LINE (41, 50)-(-41,194),4
530 LINE (-311,50)-(-311,194),4
540 I=0
550 I=I+1
560 IF X(I)=0 THEN GOTO 640
570 IF AA(I)=14 THEN AA(I)=QQQ
580 IF AA(I)=6 THEN YY(I)=170:GOTO 550
590 IF AA(I)=1 THEN YY(I)=146:GOTO 550
600 IF AA(I)=4 THEN YY(I)=122:GOTO 550
610 IF AA(I)=2 THEN YY(I)=98:GOTO 550
620 IF AA(I)=0 THEN YY(I)=180:GOTO 550
630 IF AA(I)=5 THEN YY(I)=74 :GOTO 550
640 FOR Z=1 TO 1-2
650 IF X(Z)=0 OR X(Z+1)=0 THEN GOTO 680
660 LINE(X(Z),YY(Z))-(X(Z+1),YY(Z+1)),4
670 NEXT Z
680 LINE(41,YY(1))-(X(1),YY(1)),4
690 LINE(X(I-1),YY(I-1))-(311,YY(I-1)),4
700 PAINT (42,54),0,4
710 PAINT (12,14),7,4
720 LOCATE 24,5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
730 A$=INKEY$
740 IF A$="S" THEN GOTO 770

```

```

750 IF A$="N" THEN CHAIN "B:MENU.BAS"
760 GOTO 730
770 CHAIN "B:QQI.BAS",13000
780 ' CALCULAR EL ERROR
790 FOR F=0 TO B
800 R(F)=(SQR(X(F)^2+Y(F)^2))*(1-COS((L/180)*3.141593))
810 NEXT F
820 RETURN
830 END
840 ' GRADO 0
850 LOCATE 24, 5:COLOR 4,7:PRINT "
860 COLOR 2,0:I=0:M=400:B=1
870 FOR F=1 TO M
880 IF EOF(1) THEN GOTO 930
890 INPUT #1,R,J
900 PSET(R-1,J-1),7:AA(B)=POINT(R,J)
910 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)=
5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
920 NEXT F
930 CLOSE
940 GOTO 480
950 ,90 GRADOS
960 LOCATE 24, 5:COLOR 4,7:PRINT "
970 COLOR 2,0:I=0:M=400:B=1
980 FOR F=1 TO M
990 IF EOF(1) THEN GOTO 1040
1000 INPUT #1,R,J
1010 PSET(R-1,J-1),7:AA(B)=POINT(R,J)
1020 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)=
5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1
1030 NEXT F
1040 CLOSE
1050 SCREEN 1:COLOR 0,8:CLS
1060 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "
1070 LINE (41,194)-(311,194),4
1080 LINE (41, 50)-(311, 50),4
1090 LINE (41, 50)-(-41,194),4
1100 LINE (311,50)-(311,194),4
1110 I=0
1120 I=I+1

```

```

1130 IF X(I)=0 THEN GOTO 1210
1140 IF AA(I)=14 THEN AA(I)=QQQ
1150 IF AA(I)=6 THEN YY(I)=170:GOTO 1120
1160 IF AA(I)=1 THEN YY(I)=146:GOTO 1120
1170 IF AA(I)=4 THEN YY(I)=122:GOTO 1120
1180 IF AA(I)=2 THEN YY(I)= 98:GOTO 1120
1190 IF AA(I)=0 THEN YY(I)=180:GOTO 1120
1200 IF AA(I)=5 THEN YY(I)=74 :GOTO 1120
1210 FOR Z=1 TO I-2
1220 IF X(Z)=0 OR X(Z+1)=0 THEN GOTO 680
1230 LINE(Y(Z)+56,YY(Z)) -(Y(Z+1)+56,YY(Z+1)),4
1240 NEXT Z
1250 LINE(41,YY(1))-(Y(1)+56,YY(1)),4
1260 LINE(Y(I-1)+56,YY(I-1))-(311,YY(I-1)),4
1270 PAINT(42,54),0,4
1280 PAINT(12,14),7,4
1290 LOCATE 24, 5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
1300 A$=INKEY$
1310 IF A$="S" THEN GOTO 1340
1320 IF A$="N" THEN CHAIN "B:MENU.BAS"
1330 GOTO 1300
1340 CHAIN "B:QQI.BAS",13000
1350 , MENOS DE 90 Y MAS DE 0
1360 LOCATE 24, 5:COLOR 4,7:PRINT "
1370 COLOR 2,0:I=0:M=400:B=1
1380 F=F+1
1390 IF EOF(1) THEN GOTO 1480
1400 INPUT #1,R,J
1410 PSET(R+1,J-1),7:AA(B)=POINT(R,J)
1420 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)
=5 THEN X(B)=POINT(O)+1:Y(B)=POINT(1)+1:B=B+1
1430 AA(B)=POINT(R,J-1)
1440 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)
=5 THEN X(B)=POINT(R+1,J)
1450 AA(B)=POINT(R+1,J)
1460 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=0 OR AA(B)=6 OR AA(B)=14 OR AA(B)
=5 THEN X(B)=POINT(O)+1:Y(B)=POINT(1)+1:B=B+1
1470 GOTO 1380
1480 CLOSE
1490 GOTO 1790

```

```

1500 SCREEN 1 :COLOR 0,8:CLS
1510 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "
1520 LINE (41,194)-(311,194),4
1530 LINE (41, 50)-(311, 50),4
1540 LINE (41, 50)-(-41,194),4
1550 LINE (311,50)-(-311,194),4
1560 I=0
1570 I=I+1
1580 IF X(I)=0 THEN GOTO 1660
1590 IF AA(I)=14 THEN AA(I)=QQQ
1600 IF AA(I)=6 THEN YY(I)=170:GOTO 1570
1610 IF AA(I)=1 THEN YY(I)=146:GOTO 1570
1620 IF AA(I)=4 THEN YY(I)=122:GOTO 1570
1630 IF AA(I)=2 THEN YY(I)= 98:GOTO 1570
1640 IF AA(I)=0 THEN YY(I)=180:GOTO 1570
1650 IF AA(I)=5 THEN YY(I)=74 :GOTO 1570
1660 FOR Z=1 TO I-2
1670 LINE(X(Z)+SX(Z),YY(Z))-(X(Z+1)+SX(Z+1),YY(Z+1)),4
1680 NEXT Z
1690 LINE(41,YY(1))-(X(1)+SX(1),YY(1)),4
1700 LINE(X(I-1)+SX(I-1),YY(I-1))-(311,YY(I-1)),4
1710 PAINT (42,54),0,4
1720 PAINT (12,14),7,4
1730 LOCATE 24, 5:COLOR 4,7:PRINT " QUIERE EXPLORAR MAS EL CAMPO "
1740 A$=INKEY$
1750 IF A$="S" THEN GOTO 1780
1760 IF A$="N" THEN CHAIN "B:MENU.BAS"
1770 GOTO 1740
1780 CHAIN "B:QQI.BAS",13000
1790 P=1
1800 IF P=B THEN GOTO 1500
1810 IF Y(P)<120 THEN GOTO 1830
1820 IF Y(P)>120 THEN GOTO 1860
1830 A=X(P)-176:B=120-Y(P):SY(P)=B
1840 R=INT(SQR(A^2+B^2)):SX(P)=R-A
1850 P=P+1:GOTO 1800
1860 A=176-X(P):B=Y(P)-120:SY(P)=-B
1870 R=INT(SQR(A^2+B^2)):SX(P)=A-R
1880 P=P+1:GOTO 1800
1890 ' MAS DE 90

```

1900 LOCATE 24, 5:COLOR 4,7:PRINT " OPERANDO  
 1910 COLOR 2,0:I=0:M=400:B=1  
 1920 F=F+1  
 1930 IF EOF(1) THEN GOTO 2020  
 1940 INPUT #1,R,J  
 1950 PSET(R-1,J-1),7:AA(B)=POINT(R,J)  
 1960 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=6 OR AA(B)=14 OR AA(B)  
 =5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1  
 1970 AA(B)=POINT(R,J-1)  
 1980 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=6 OR AA(B)=14 OR AA(B)  
 =5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1  
 1990 AA(B)=POINT(R-1,J)  
 2000 IF AA(B)=1 OR AA(B)=2 OR AA(B)=4 OR AA(B)=6 OR AA(B)=14 OR AA(B)  
 =5 THEN X(B)=POINT(0)+1:Y(B)=POINT(1)+1:B=B+1  
 2010 GOTO 1920  
 2020 CLOSE  
 2030 GOTO 2330  
 2040 SCREEN 1:COLOR 0,8:CLS  
 2050 LOCATE 1,1,8:COLOR 2,4:PRINT " ESTUDIO DEL CAMPO VISUAL "  
 2060 LINE (41,194)-(311,194),4  
 2070 LINE (41, 50)-(311, 50),4  
 2080 LINE (41, 50)-(-41,194),4  
 2090 LINE (311,50)-(311,194),4  
 2100 I=0  
 2110 I=I+1  
 2120 IF X(I)=0 THEN GOTO 2200  
 2130 IF AA(I)=14 THEN AA(I)=QQQ  
 2140 IF AA(I)=6 THEN YY(I)=170:GOTO 2110  
 2150 IF AA(I)=1 THEN YY(I)=146:GOTO 2110  
 2160 IF AA(I)=4 THEN YY(I)=122:GOTO 2110  
 2170 IF AA(I)=2 THEN YY(I)=98:GOTO 2110  
 2180 IF AA(I)=0 THEN YY(I)=180:GOTO 2110  
 2190 IF AA(I)=5 THEN YY(I)=74 :GOTO 2110  
 2200 FOR Z=1 TO I-2  
 2210 LINE(X(Z)+SX(Z),YY(Z))-(X(Z+1)+SX(Z+1),YY(Z+1)),4  
 2220 NEXT Z  
 2230 LINE(41,YY(1))-(X(1)+SX(1),YY(1)),4  
 2240 LINE(X(I-1)+SX(I-1),YY(I-1))-(311,YY(I-1)),4  
 2250 PAINT (42,54),0,4  
 2260 PAINT (12,14),7,4

"QUIERE EXPLORAR MAS EL CAMPO "

```
2270 LOCATE 24, 5:COLOR 4,7:PRINT "QUIERE EXPLORAR MAS EL CAMPO "
2280 A$=INKEY$
2290 IF A$="S" THEN GOTO 2320
2300 IF A$="N" THEN CHAIN "B:MENU.BAS"
2310 GOTO 2280
2320 CHAIN "B:QOI.BAS",13000
2330 P=1
2340 IF P=B THEN GOTO 2040
2350 IF Y(P)<120 THEN GOTO 2370
2360 IF Y(P)>120 THEN GOTO 2400
2370 A=176-X(P):B=120-Y(P):SY(P)=B
2380 R=INT(SQR(A^2+B^2)):SX(P)=A-R
2390 P=P+1:GOTO 2340
2400 A=X(P)-176:B=Y(P)-120:SY(P)=-B
2410 R=INT(SQR(A^2+B^2)):SX(P)=R-A
2420 P=P+1:GOTO 2340
```

IV. DISCUSSION

## DISCUSION

Fargas y colaboradores, han recopilado tres condiciones generales que debería de tener un sistema automatizado para mantener una relación aceptable entre el médico-personal paramédico y el ordenador.

- 1.- El sistema debe de llenar por completo el propósito de los diferentes usuarios que puedan estar en contacto con él.
- 2.- El usuario debe de sentirse cómodo en la necesaria interacción entre hombre y máquina.
- 3.- La forma de entrada y salida de datos debe ser satisfactoria para ambos, médicos-personal paramédico y ordenador.

Otros requerimientos generales incluirían los siguientes requisitos en la relación personal especializado y máquina:

- 1.- Simplicidad, que sería la más importante si el sistema va a ser capaz de tener una aplicación general en centros donde el costo es de predominante importancia. Para este fin, el método de recopilación o recogida de datos por el médico o personal
- .../...

paramédico debe de ser correcto y con ahorro de tiempo burocrático. Además no tiene que haber necesidad por parte de la plantilla de resolver problemas de diferentes stadios de transcripción como copias con papel carbón que puede ser realizado directamente y eficazmente por el ordenador.

2.- Decisión de los rasgos esenciales, que debe de hacerse antes de iniciar el sistema, tales que los cambios subsiguientes puedan mantenerse. A la luz de la experiencia, estos llegarán a ser necesarios en cualquier caso, pero esta inherente dificultad puede ser minimizada con un cuidadoso planteamiento que decide cual es la información importante a nivel de los historiales clínicos y qué es lo que tiene que visualizar en pantalla el médico y personal paramédico a nivel de entrada y salida de datos.

Según estos parámetros dados por **Fargas** y colaboradores vamos a analizar ésta aplicación en relación con la publicada por **Pitts Crick**.

Una vez conectado el ordenador y después de introducir el sistema operativo que en éste caso .../...

el utilizado es el llamado MS/DOS, se ha creado con el editor una subrutina llamada "GLAUCOMA.BAT", en la cual están introducidas las instrucciones necesarias para llamar al interprete (en este caso es el GWBASIC) y correr el primer programa que es la portada. Con ello facilitamos al personal que utilice el ordenador a poder poner en marcha esta aplicación sin tener los conocimientos de informática básica necesarios para empezar a introducir datos.

Para salir de la portada y encontrarnos con el menú principal el operador sólo tiene que pulsar return, que es una de las llaves del teclado que debe de conocer.

A partir de éste momento, el usuario sólo tiene que seguir las instrucciones que le pide el ordenador las cuales son muy simples y sencillas.

Una vez displayado el menu principal, tendremos las siguientes opciones:

- 1.- Fichero de nombres y consulta de datos
- 2.- Historia clínica
- 3.- Datos ayuda al diagnóstico diferencial (opcional)
- 4.- Datos ayuda terapeútica
- 5.- Vademecum (opcional)
- 6.- Bibliografía (opcional)
- 7.- Terminar la sesión

Unicamente vamos a comentar lo que la historia clínica del glaucoma que es lo que nos ocupa en este trabajo, ya que en lo que se refiere a las demás aplicaciones hay un gran surtido en el mercado de software.

Con relación a la petición de datos:

Una de las características principales de ésta aplicación, es la codificación de los datos. La petición de datos es sistemática para cada apartado de la historia clínica. El dato que nos pide el ordenador, nos aparece en video inverso y automáticamente nos coloca el cursor justo al comienzo del campo donde tendremos que anotar los datos objetivos o subjetivos de la exploración.

La dimensión de estos campos, se ha calculado en función de la cantidad de datos a introducir y la obligación de que el oftalmólogo introduzca solamente lo esencial y de forma resumida, para que a la hora de consultar esos datos, podamos ir directamente al problema o consulta que nos ocupe.

Con respecto al trabajo de R.P.Crick, encontramos las siguientes mejoras en éste apartado de introducción de datos:

- a) Mejor situación geográfica de los datos en pantalla, y más cómoda su lectura (sin tener que inclinar la cabeza oblicuamente).

- b) Mayor número de parámetros a introducir con las ventajas de poder añadir otros menos usuales que no encontramos en la pantalla, y a su vez poderlos describir y no encajonarlos en el apartado codificado de "Otros" como en el trabajo de **R.P.Crick**.
- c) La posibilidad de introducir datos de forma codificada y otros de forma secuencial en los casos en que requiera una más extensa explicación.

Con relación a sus capacidades gráficas:

El trabajo de **R.P.Crick** carece de opción de gráficos.

En esta aplicación podemos destacar las siguientes opciones gráficas:

- a) La gonioscopia, en la que se ha incluido la patología del ángulo en forma de dibujos esquemáticos de fácil interpretación.
  - b) La curva tensional diurna.
  - c) La exploración de la papila. Ella se basa en la forma, tamaño y localización de la
- .../...

excavación, así como en la desviación del árbol vascular y el área de coloración de la pila.

- d) El campo visual, en el que ante la falta de un ratón se ha tenido que utilizar las teclas de los números y redefinirlas como funciones de movimiento del cursor en la pantalla.

V. CONCLUSIONES

## CONCLUSIONES

- 1.- El normal avance paulatino de la tecnología obliga a la clase médica a una adaptación constante a todo lo referente al mundo de la informática para así, poder concentrar y dedicar todo su conocimiento y esfuerzo en el paciente.
- 2.- La informatización de los servicios a nivel hospitalario nos llevará a una unificación de criterios y a un ahorro considerable de tiempo en lo que se refiere a introducción, búsqueda, selección e investigación de toda una constelación de datos clínicos.
- 3.- También, hay que agregar que cualquier determinación no debe ser demasiado brusca o precipitada; la instalación de un sistema informático de rendimiento satisfactorio puede incluso llevar años al igual que la reflexión para tomar una decisión puede suponer varios meses antes de tomar una postura firme al respecto.
- 4.- Con relación al trabajo que nos ocupa, podemos concluir que hemos aportado una mejora en lo referente a la computarización de la historia clínica del glaucoma debido a un favorecimiento en la relación entre médico-ordenador ya que:
  - a) Hemos llegado a una gran simplicidad a nivel del uso del ordenador lo que va .../...

a capacitar a cualquier oftalmólogo el uso de esta aplicación sin tener una previa noción del mundo de la informática.

b) Hemos mejorado los anteriores trabajos publicados en lo que se refiere a:

- El número de datos clínicos y exploratorios con lo que obligamos a los diferentes usuarios a una metódica lo que nos llevará a una unificación de criterios.

- La codificación de casi la totalidad de los datos lo que nos llevará a un ahorro considerable a nivel del espacio disponible en los disquetes.

- La inclusión de esquemas gráficos a nivel de la introducción de datos del C.V., curva tensional diurna, aspecto de la papila y aspecto gonioscopico.

5.- Podremos sentirnos satisfechos, si una vez terminada la lectura de este trabajo se ha logrado convencer a unos cuantos médicos de las ventajas objetivas de la microinformática, haciéndole reflexionar sobre la conveniencia de emprender la informatización de su ambiente médico después de haber hecho un análisis metodológico del conjunto de ventajas e inconvenientes.