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10 MODE 1:INK 0,0:INK 1,26:BORDER 0:INK
2,26,0:WINDOW#1,1,40,24,25
20 POKE &B632,255: ' POKE PARA ACTIVAR P
OR SOFTWARE EL CAPS LOCK
30 WIDTH 80
40 DEFINT A-Z
50 ' CUERPO PRINCIPAL
60 DIM R(3,28),F(28),P(28)
70 N=1000:DIM A(N):DIM B(3):' BUFFERS DE
ENTRADA
80 CTR=0:RFLAG=0
90 GOSUB 1260:' TABLERO DE ENCHUFES
100 GOSUB 2810:' SELECCION ROTORES
110 GOSUB 1950:' COLOCACION ANILLOS
120 GOSUB 2500:' INICIALIZACION ROTORES
130 GOSUB 2270:' ENTRADA TEXTO
140 CLS:GOSUB 1640:' PASO POR TABLERO DE
CONEXIONES
150 GOSUB 960:' PASO POR ROTORES
160 GOSUB 1670:' PASO POR TABLERO DE CON
EXIONES
170 IF RFLAG=1 THEN 120
180 GOSUB 1050:' SALIDA TEXTO
190 CLS:PRINT "OTRO TEXTO PARA CIFRAR (S
/N) ";;MODO=3:GOSUB 500
200 IF A$<>"S" AND A$<>"N" THEN 190
210 PRINT A$
220 IF A$="S" THEN RUN
230 STOP
240 ' Rutina de incremento de rotors
250 GOSUB 350:' ROTOR 1
260 N1=N1+1:IF N1<29 THEN 340
270 N1=1
280 GOSUB 400:' ROTOR 2
290 N2=N2+1:IF N2<29 THEN 340
300 N2=1
310 GOSUB 450:' ROTOR 3
320 N3=N3+1:IF N3<29 THEN 340
330 N3=1
340 RETURN
350 ' INCREMENTO ROTOR 1
360 TEMP=R(1,1)
370 FOR K=2 TO 28:R(1,K-1)=R(1,K):NEXT K
380 R(1,28)=TEMP
390 RETURN
400 ' INCREMENTO ROTOR 2
410 TEMP=R(2,1)
420 FOR K=2 TO 28:R(2,K-1)=R(2,K):NEXT K
430 R(2,28)=TEMP
440 RETURN
450 ' INCREMENTO ROTOR 3
460 TEMP=R(3,1)
470 FOR K=2 TO 28:R(3,K-1)=R(3,K):NEXT K
480 R(3,28)=TEMP
490 RETURN
500 ' LEER UN CARACTER
510 IF INKEY$<>" " THEN 510
520 A$=INKEY$:IF A$=" " THEN 520
530 SOUND 1,35,1
540 IF MODO=4 THEN 640
550 IF (ASC(A$)<65)OR(ASC(A$)>90) THEN 5
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560 IF (ASC(A$)<70)OR(MODO<>1) THEN 660
570 IF MODO=1 THEN 650
580 IF A$=" " THEN A$="*"
590 IF (A$="*")OR(A$="@")THEN 660
600 IF MODO<>3 THEN 650
610 IF A$=CHR$(127) THEN 660:' BACKSPACE
620 IF A$="#" THEN GOSUB 790:IF RFLAG=1
THEN 660
630 IF A$="$" THEN GOSUB 720: IF GFLAG=1
THEN 660
640 IF A$=CHR$(13) THEN SOUND 1,35,1:GOT
O 660:' ENTER
650 GOTO 510
660 RETURN
670 ' CONVERTIR A CHARACTER
680 IF A$="*" THEN PTR=27:GOTO 710
690 IF A$="@" THEN PTR=28:GOTO 710
700 PTR=ASC(A$)-64
710 RETURN
720 ' $ OK
730 GFLAG=0
740 IF CTR>2 THEN 780
750 IF (CTR=0)AND(HI<>0)THEN 780
760 IF (CTR=1)AND(LO=1)THEN 780
770 GFLAG=1:CTR=CTR+1
780 RETURN
790 ' # OK
800 IF HI<LO THEN 820
810 RFLAG=1
820 RETURN
830 ' PROCESO DE CARACTERES
840 PTR=R(1,PTR):PTR=R(2,PTR):PTR=R(3,PT
R)
850 NDL=F(PTR)
860 FOR K=1 TO 28
870 IF R(3,K)=NDL THEN NDL=K:K=28
880 NEXT K
890 FOR K=1 TO 28
900 IF R(2,K)=NDL THEN NDL=K:K=28
910 NEXT K
920 FOR K=1 TO 28
930 IF R(1,K)=NDL THEN SALIR=K:K=28
940 NEXT K
950 RETURN
960 ' PASO POR LOS ROTORES
970 PEN #1,2:PRINT #1," ESTOY PROCESAN
DO EL TEXTO ":PEN#1,1
980 FOR J=LO TO HI
990 PTR=A(J)
1000 GOSUB 830:' PROCESO DE CARACTERES
1010 A(J)=SALIR
1020 GOSUB 240:' INCREMENTO DE ROTORES
1030 NEXT J
1040 RETURN
1050 ' SALIDA DE TEXTO
1060 CLS:FOR W=1 TO 3:SOUND 1,60,1:FOR T
=1 TO 200:NEXT T:NEXT W
1070 PRINT "SALIDA A IMPRESORA? (S/N) ";
1080 MODO=3:GOSUB 500
1090 IF A$<>"S" AND A$<>"N" THEN 1080
1100 PRINT A$
1110 IF A$="S" THEN TES=1
1120 CLS:PRINT:IF TES=1 THEN PRINT #8
1130 FOR J=1 TO HI
1140 SALIR=A(J)
1150 GOSUB 1210:' RECUPERAR CHARACTER
1160 PRINT B$;:IF TES=1 THEN PRINT #8, B
$;
1170 NEXT J

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1180 PRINT: IF TES=1 THEN PRINT #8:PRINT
#8
1190 PRINT #1,CHR$(24)" PULSA -ENTER- P
ARA CONTINUAR "CHR$(24):MODO=4:GOSUB 50
0:' LEE CHARACTER
1200 RETURN
1210 ' RECUPERAR CHARACTER
1220 IF SALIR<27 THEN B$=CHR$(SALIR+64):
GOTO 1250
1230 IF SALIR=27 THEN B$="*":GOTO 1250
1240 B$="@"
1250 RETURN
1260 ' TABLERO DE ENCHUFES
1270 GOSUB 3510:' INTERCAMBIOS?
1280 IF TESEP=1 THEN 1630
1290 CLS:LOCATE 3,1:PRINT"-ASIGNACION DE
INTERCAMBIOS-":PRINT
1300 LDS=0:J=28:OLD=0
1310 PRINT"VER CARACTERES RESTANTES (S/N
)" ;:PEN 2:PRINT"_";CHR$(8);:PEN 1
1320 MODO=3:GOSUB 500:' LEE CHARACTER
1330 IF A$<>"S" AND A$<>"N" THEN 1320
1340 YFLAG=0:IF A$="S" THEN YFLAG=1
1350 PRINT A$:PRINT
1360 FOR K=1 TO 28
1370 IF P(K)<>0 THEN 1530
1380 SALIR=K:GOSUB 1210:' RECUPERAR CARA
CTER
1390 PRINT B$;" CAMBIA CON? ";
1400 MODO=2:GOSUB 500:' LEER CHARACTER
1410 IF A$=B$ THEN P(K)=K:GOTO 1450
1420 GOSUB 670:' CONVERTIR CHARACTER
1430 IF P(PTR)<>0 THEN 1400
1440 P(PTR)=K:P(K)=PTR:LDS=LDS+1
1450 PRINT A$;
1460 IF LDS=OLD THEN PRINT:GOTO 1490
1470 S$=" (QUEDAN ":IF LDS>4 THEN S$=S$+
" "
1480 PRINT S$;14-LDS;" )"
1490 IF LDS=14 THEN J=K:K=28
1500 OLD=LDS
1510 IF YFLAG=0 THEN 1530
1520 GOSUB 1710:' VER RESTANTES
1530 IF K=14 OR K=28 THEN GOSUB 3490:' L
IMPIAR PARTE BAJA
1540 NEXT K
1550 IF J=28 THEN 1620
1560 FOR X=J+1 TO 28:SALIR=X
1570 IF P(SALIR)<>0 THEN 1610
1580 P(SALIR)=SALIR
1590 GOSUB 1210:' RECUPERAR CHARACTER
1600 PRINT B$;" CAMBIA CON ";B$
1610 NEXT X:SALIR=X
1620 FOR W=1 TO 32:PRINT #1,CHR$(8);:NEX
T W:PRINT #1,CHR$(24)" PULSA -ENTER- PA
RA CONTINUAR "CHR$(24):MODO=4:GOSUB 500
:' LEER CARA
CTER
1630 RETURN
1640 ' PASO POR EL TABLERO DE CONEXIONES
1650 W!=(HI-LO+1)*0.32:Z=INT(W!/60):Y=IN
T(W!-Z*60)
1660 PRINT "TARDARE: ";Z;" MINS. ";Y;" S
EGS."
1670 FOR J=LO TO HI
1680 PTR=A(J):A(J)=P(PTR)
1690 NEXT J
1700 RETURN
1710 ' VER RESTANTES

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1720 FOR W=1 TO 32:PRINT #1,CHR$(8);:NEXT W
1730 FOR X=1 TO 28:SALIR=X
1740 IF P(SALIR)=0 THEN 1760
1750 PRINT #1,CHR$(24)" "CHR$(24);:GOTO 1780
1760 GOSUB 1210:' RECUPERAR CARACTER
1770 PRINT #1,B$;
1780 NEXT X:SALIR=X
1790 ' PRINT
1800 PRINT #1,"":RETURN
1810 ' INICIALIZAR ROTORES
1820 IF N1=T1 THEN 1860
1830 GOSUB 350:' ROTOR 1
1840 N1=N1+1:IF N1=29 THEN N1=1
1850 GOTO 1820
1860 IF N2=T2 THEN 1900
1870 GOSUB 400:' ROTOR 2
1880 N2=N2+1:IF N2=29 THEN N2=1
1890 GOTO 1860
1900 IF N3=T3 THEN 1940
1910 GOSUB 450:' ROTOR 3
1920 N3=N3+1:IF N3=29 THEN N3=1
1930 GOTO 1900
1940 RETURN
1950 ' COLOCACION DE LOS ANILLOS
1960 CLS:LOCATE 6,1:PRINT"-COLOCACION DE
  LOS ANILLOS-":PRINT
1970 N1=1:N2=1:N3=1
1980 FOR L=1 TO 3
1990 ON L GOTO 2000,2010,2020
2000 PRINT"ROTOR 1-POSICION 1 DE NUCLEO?
  ";:GOTO 2030
2010 PRINT"ROTOR 2-POSICION 1 DE NUCLEO?
  ";:GOTO 2030
2020 PRINT"ROTOR 3-POSICION 1 DE NUCLEO?
  ";
2030 MODO=2:GOSUB 500:' LEE CARACTER
2040 PRINT A$:PRINT
2050 GOSUB 670:' CONVERTIR CARACTER
2060 B(L)=PTR
2070 NEXT L
2080 PRINT #1,CHR$(24)" PULSA -ENTER- P
  ARA CONTINUAR "CHR$(24):MODO=4:GOSUB 50
  0:' LEE CARACTER
2090 '
2100 GOSUB 2120:' POSICION DE LOS ANILLO
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2110 RETURN
2120 ' POSICION DE LOS ANILLOS
2130 CLS:PEN#1,2:PRINT #1," ESTOY COLOC
ANDO LOS ANILLOS ":PEN#1,1
2140 FOR L=1 TO 3
2150 IF B(L)=1 THEN 2240
2160 FOR J=1 TO 29-B(L)
2170 ON L GOSUB 350,400,450:' ROTORES 1,
2,3
2180 NEXT J
2190 TEMP=30-B(L)
2200 ON L GOTO 2210,2220,2230
2210 N1=TEMP:GOTO 2240
2220 N2=TEMP:GOTO 2240
2230 N3=TEMP
2240 NEXT L
2250 T1=N1:T2=N2:T3=N3
2260 RETURN
2270 ' LEER TEXTO
2280 SPEED KEY 20,2:' MAS RAPIDO
2290 CLS
2300 PRINT"TEXTO DEL MENSAJE: ":PRINT
2310 IF RFLAG=1 THEN LO=HI+1:GOTO 2330
2320 HI=0:LO=1
2330 RFLAG=0
2340 MODO=3:GOSUB 500:' LEE CARACTER
2350 IF A$<>CHR$(127) THEN 2380
2360 IF HI<LO THEN 2340
2370 PRINT CHR$(8)+" "+CHR$(8);:HI=HI-1:
GOTO 2340
2380 IF A$=CHR$(13) THEN 2450
2390 IF A$=CHR$(36) THEN PRINT "'";:GOTO
2340
2400 IF A$=CHR$(35) THEN 2450
2410 GOSUB 670:' CONVERTIR CARACTER
2420 HI=HI+1:A(HI)=PTR:PRINT A$;
2430 IF CTR=1 THEN LO=LO+1:' TEXTO SIN C
IFRAR
2440 IF HI<>N THEN 2340
2450 PRINT
2460 IF HI<>N THEN 2490
2470 SOUND 1,60,25:PEN#1,2:PRINT #1,"
BUFFER LLENO. PULSA -ENTER- ":PEN#1,1
2480 MODO=4:GOSUB 500:' LEE CARACTER
2490 SPEED KEY 35,2:RETURN
2500 ' INICIALIZACION DE ROTORES

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2510 IF RFLAG=1 THEN GOSUB 1810: ' REINIC
IALIZAR ROTORES
2520 CLS:LOCATE 4,1:PRINT"-INICIALIZANDO
ROTORES-":PRINT
2530 FOR L=1 TO 3
2540 ON L GOTO 2550,2560,2570
2550 PRINT"ROTOR 1 EN POSICION? (A/B/...
) ";;GOTO 2580
2560 PRINT"ROTOR 2 EN POSICION? (A/B/...
) ";;GOTO 2580
2570 PRINT"ROTOR 3 EN POSICION? (A/B/...
) ";
2580 MODO=2:GOSUB 500: ' LEE CHARACTER
2590 PRINT A$:PRINT
2600 GOSUB 670: ' CONVERTIR CHARACTER
2610 B(L)=PTR
2620 NEXT L
2630 PRINT #1,CHR$(24)" PULSA -ENTER- P
ARA CONTINUAR "CHR$(24):MODO=4:GOSUB 50
0: ' LEE CHARACTER
2640 GOSUB 2660: ' PONIENDO ROTORES
2650 RETURN
2660 ' COLOCAR ROTORES
2670 CLS:PEN#1,2:PRINT #1," ESTOY COLOC
ANDO LOS ROTORES " :PEN#1,1
2680 FOR L=1 TO 3
2690 IF B(L)=1 THEN 2790
2700 FOR J=1 TO B(L)-1
2710 ON L GOSUB 350,400,450: ' ROTORES 1,
2,3
2720 ON L GOTO 2730,2750,2770
2730 N1=N1+1:IF N1=29 THEN N1=1
2740 GOTO 2780
2750 N2=N2+1:IF N2=29 THEN N2=1
2760 GOTO 2780
2770 N3=N3+1:IF N3=29 THEN N3=1
2780 NEXT J
2790 NEXT L
2800 RETURN
2810 ' SELECCION DE ROTORES
2820 CLS:LOCATE 5,1:PRINT"-SELECCION DE
ROTORES-":PRINT
2830 FOR L=1 TO 3
2840 ON L GOTO 2850,2860,2870
2850 PRINT"ROTOR 1 ES? (A/B/C/D/E) ";;GO
TO 2880
2860 PRINT"ROTOR 2 ES? (A/B/C/D/E) ";;GO
TO 2880
2870 PRINT"ROTOR 3 ES? (A/B/C/D/E) ";
2880 GOSUB 2950: ' LEE ROTOR
2890 PRINT A$:PRINT
2900 NEXT L
2910 PRINT #1,CHR$(24)" PULSA -ENTER- P
ARA CONTINUAR "CHR$(24):MODO=4:GOSUB 50
0: ' LEE CHARACTER
2920 CLS:PEN#1,2:PRINT #1," ESTOY INSTA
LANDO LOS ROTORES " :PEN#1,1
2930 GOSUB 3070: ' INSTALAR ROTORES
2940 RETURN
2950 ' LEE ROTOR
2960 MODO=1:GOSUB 500: ' LEE CHARACTER
2970 GOSUB 670: ' CONVERTIR CHARACTER
2980 IF L=1 THEN 3010
2990 IF L=2 THEN 3020
3000 IF L=3 THEN 3040
3010 B(L)=PTR:GOTO 3060
3020 IF PTR=B(1) THEN 2960
3030 B(L)=PTR:GOTO 3060
3040 IF (PTR=B(1) OR PTR=B(2)) THEN 2960
3050 B(L)=PTR

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3060 RETURN
3070 ' INSTALAR ROTORES
3080 RESTORE 3300
3090 FOR K=1 TO 28:READ F(K):NEXT K
3100 FOR L=1 TO 5
3110 DFLAG=1
3120 FOR J=1 TO 3
3130 IF B(J)<>L THEN 3150
3140 DFLAG=0:GOSUB 3190:' MONTAR ROTOR
3150 NEXT J
3160 IF DFLAG=1 THEN GOSUB 3270:' DESCAR
TAR DATOS
3170 NEXT L
3180 RETURN
3190 ' MONTAR ROTOR
3200 FOR K=1 TO 28
3210 ON J GOTO 3220,3230,3240
3220 READ R(1,K):GOTO 3250
3230 READ R(2,K):GOTO 3250
3240 READ R(3,K)
3250 NEXT K
3260 RETURN
3270 ' DESCARTAR DATOS
3280 FOR K=1 TO 28:READ DUMMY:NEXT K
3290 RETURN
3300 ' DATOS PARA EL CABLEADO DEL REFLEC
TOR
3310 DATA 23,19,20,14,15,22,11,12,21,24,
7,8,17
3320 DATA 4,5,25,13,26,2,3,9,6,1,10,16,1
8,28,27
3330 ' DATOS PARA EL CABLEADO DEL ROTOR
"A"
3340 DATA 26,23,9,28,15,19,4,16,6,12,20,
21,22
3350 DATA 14,1,25,10,27,13,17,24,3,2,11,
7,18,5,8
3360 ' DATOS PARA EL CABLEADO DEL ROTOR
"B"
3370 DATA 8,10,5,13,15,25,1,4,9,28,17,26
,12,11,14,24
3380 DATA 22,16,2,19,23,21,27,6,20,7,3,1
8
3390 ' DATOS PARA EL CABLEADO DEL ROTOR
"C"
3400 DATA 12,23,19,7,2,24,1,27,22,14,5,9
,15,10,8
3410 DATA 21,11,4,13,16,20,18,6,26,17,28
,25,3
3420 ' DATOS PARA EL CABLEADO DEL ROTOR
"D"
3430 DATA 13,5,27,9,15,1,10,18,14,19,12,
3,24,2,7
3440 DATA 11,4,22,21,28,23,25,26,20,6,17
,8,16
3450 ' DATOS PARA EL CABLEADO DEL ROTOR
"E"
3460 DATA 19,7,14,16,3,25,12,18,28,1,10,
24,6,26,17
3470 DATA 21,22,8,23,11,2,27,4,13,9,15,5
,20
3480 ' LIMPIAR PARTE BAJA
3490 FOR X=4 TO 20:LOCATE 1,X+1:PRINT SP
ACE$(40):NEXT X:LOCATE 1,5
3500 RETURN
3510 ' INTERCAMBIOS?
3520 CLS:PRINT "QUIERES INTERCAMBIOS? (S
/N) ";
3530 MODC=3:GOSUB 500

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3540 IF A$<>"S" AND A$<>"N" THEN 3530
3550 PRINT A$
3560 TESEP=1
3570 IF A$="S" THEN TESEP=0:GOTO 3590
3580 FOR W=1 TO 28:P(W)=W:NEXT W
3590 RETURN
3600 MODE 1: PEN 1: PAPER 0: INK 1,26: INK 0
,0
3610 PRINT"SESION CANCELADA...":PRINT:PR
INT
3620 END
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