

PROGRAMA CARGADOR

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10 'AMSTRAD SEMANAL J.C.P.
20 MEMORY &9FFF:n=&A000
30 FOR i=1 TO 39:FOR j=1 TO 10:READ
  a$b=VAL("&" + a$b):sco=sco+b:POKE n,
  b:n=n+1:NEXT
40 READ s:IF s<>sco THEN PRINT"ERROR
  R en linea:";i*10+50:STOP
50 sco=0:NEXT
60 DATA 01,09,A0,21,14,A0,C3,D1,BC,
  0E, 989
70 DATA A0,C3,18,A0,52,45,4C,4F,CA,
  00, 1047
80 DATA 00,00,00,00,FE,00,28,59,FE,
  02, 639
90 DATA 28,2F,FE,03,20,23,DD,7E,04,
  FE, 1016
100 DATA 05,30,1C,5F,07,83,5F,16,00,
  21, 464
110 DATA 67,A1,19,DD,5E,02,73,3E,19,
  93, 955
120 DATA 23,77,23,DD,5E,00,3E,3C,93,
  77, 892
130 DATA C9,21,4F,A1,06,12,C3,BA,A0,
  21, 1072
140 DATA 62,A1,CD,35,A0,23,36,3C,21,
  C2, 1053
150 DATA A0,CD,EC,BC,21,C8,A0,11,CF,
  A0, 1566
160 DATA 06,81,CD,EF,BC,21,C2,A0,11,

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  32, 1221
170 DATA 00,01,32,00,C3,E9,BC,06,01,
  3A, 732
180 DATA 7B,A1,A8,32,7B,A1,CD,78,BB,
  22, 1332
190 DATA 7C,A1,C9,CD,78,BB,E5,3E,07,
  CD, 1501
200 DATA B4,BB,F5,2A,7C,A1,CD,75,BB,
  21, 1481
210 DATA 63,A1,4E,3E,19,91,CD,37,A1,
  23, 1026
220 DATA 4E,3E,3C,91,CD,3A,A1,21,76,
  A1, 1081
230 DATA 06,05,F3,CD,BA,A0,FB,F1,CD,
  B4, 1682
240 DATA BB,E1,CD,75,BB,C9,7E,23,CD,
  5A, 1578
250 DATA BB,10,F9,C9,00,00,00,00,00,
  00, 653
260 DATA 00,00,00,00,00,00,00,21,65,
  A1, 295
270 DATA 35,20,0E,36,3C,2B,35,20,08,
  36, 403
280 DATA 3C,2B,35,20,02,36,18,3A,7B,
  A1, 610
290 DATA B7,C4,85,A0,3A,66,A1,B7,20,
  26, 1246
300 DATA 06,05,21,67,A1,7E,23,B7,20,
  05, 689

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310 DATA 23,23,10,F7,C9,3A,63,A1,BE,
  20, 1074
320 DATA F5,23,3A,64,A1,BE,20,EF,2B,
  2B, 1146
330 DATA 36,00,3E,01,32,66,A1,C9,06,
  00, 637
340 DATA C5,01,10,7F,ED,49,3E,48,ED,
  79, 1146
350 DATA 3E,17,CD,1E,BB,C1,20,08,10,
  EC, 992
360 DATA 3E,07,CD,5A,BB,C9,AF,32,66,
  A1, 1240
370 DATA C9,11,76,A1,06,FF,04,D6,0A,
  02, 1196
380 DATA 3C,A1,4F,3E,30,80,12,13,79,
  C6, 894
390 DATA 3A,12,13,13,C9,4F,72,64,65,
  6E, 819
400 DATA 20,69,6E,63,6F,72,72,65,63,
  74, 1001
410 DATA 61,2E,0A,0D,00,00,00,00,00,
  00, 166
420 DATA 00,00,00,00,00,00,00,00,00,
  00, 0
430 DATA 00,00,00,00,00,00,3A,00,00,
  00, 58
440 DATA 00,00,00,00,00,00,00,00,00,
  00, 0

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PROGRAMA ENSAMBLADOR

10 ;RELOJ CON HORAS Y MINUTOS

20 ;Y CON CINCO ALARMAS

30 ;J.C.P.

40 ; 17-6-87

50

60 ORG #A000

70 ENT \$

80 LD BC,TAB

90 LD HL,ESP

100 JP #BCD1

110 TAB: DEFW NON

120 JP RELOJ

130 NON: DEFW "RELO"

140 DEFB "J3+128,0

150 ESP: DEFS 4

160

170 RELOJ: CP 0

180 JR Z,MOS

190 CP 2

200 JR Z,HORA

210 CP 3

220 JR NZ,ERR1

230 LD A,(IX+4)

240 CP 5

250 JR NC,ERR1

260

270

280

290

300

310

320

330 ENTRA:

340

350

360

370

380

390

400

410

420

430

440

450

460 ERR1:

470

480

490

500 HORA:

LD E,A

RLCA

ADD A,E

LD E,A

LD D,0

LD HL,DIR

ADD HL,DE

LD E,(IX+2)

LD (HL),E

LD A,25

SUB E

INC HL

LD (HL),A

INC HL

LD E,(IX)

LD A,60

SUB E

LD (HL),A

RET

LD HL,ERR

LD B,18

JP BUCLE

LD HL,HOR-1

510

520

530

540

550

560

570

580

590

600

610

620

630

640

650 MOS:

660

670

680

690

700

710

720

730 MOSTRA:

740

750

CALL ENTRA

INC HL

LD (HL),60

LD HL,CLO

CALL #BCEC

LD HL,BLO

LD DE,EVE

LD B,129

CALL #BCEF

LD HL,CLO

LD DE,50

LD BC,50

JP #BCE9

LD B,1

LD A,(VIS)

XOR B

LD (VIS),A

CALL #BB78

LD (CUR),HL

RET

CALL #BB78

PUSH HL

LD A,7

760

770

780

790

800

810

820

830

840

850

860

870

880

890

900

910

920

930

940

950

960

970

980

990

1000

CALL #BBB4

PUSH AF

LD HL,(CUR)

CALL #BB75

LD HL,HOR

LD C,(HL)

LD A,25

SUB C

CALL RUT2

INC HL

LD C,(HL)

LD A,60

SUB C

CALL RUT

LD HL,MEN

LD B,5

DI

CALL BUCLE

EI

POP AF

CALL #BBB4

POP HL

CALL #BB75

RET

1010 BUCLE:	LD A,(HL)	1260	JR NZ,SONAR	1510		1760	LD C,A
1020	INC HL	1270	LD B,5	1520 SONAR:	LD B,0	1770	LD A,48
1030	CALL #BB5A	1280	LD HL,DIR	1530 BUC1:	PUSH BC	1780	ADD A,B
1040	DJNZ BUCLE	1290 BUC:	LD A,(HL)	1540	LD BC,#7F10	1790	LD (DE),A
1050	RET	1300	INC HL	1550	OUT (C),C	1800	INC DE
1060		1310	OR A	1560	LD A,#4B	1810	LD A,C
1070 CLO:	DEFS 6	1320	JR NZ,SAL	1570	OUT (C),A	1820	ADD A,58
1080 BLO:	DEFS 7	1330 V1:	INC HL	1580	LD A,23	1830	LD (DE),A
1090 EVE:	LD HL,SEG	1340 V2:	INC HL	1590	CALL #BB1E	1840	INC DE
1100	DEC (HL)	1350	DJNZ BUC	1600	POP BC	1850	INC DE
1110	JR NZ,FL	1360	RET	1610	JR NZ,FIN	1860	RET
1120	LD (HL),60	1370		1620	DJNZ BUC1	1870	
1130	DEC HL	1380 SAL:	LD A,(HOR)	1630	LD A,7	1880 ERR:	DEFM
1140	DEC (HL)	1390	CP (HL)	1640	CALL #BB5A	"Orden incorrecta."	
1150	JR NZ,FL	1400	JR NZ,V1	1650	RET	1890	DEFB 10,13,0
1160	LD (HL),60	1410	INC HL	1660		1900 HOR:	DEFB 0
1170	DEC HL	1420	LD A,(MIN)	1670 FIN:	XOR A	1910 MIN:	DEFB 0
1180	DEC (HL)	1430	CP (HL)	1680	LD (ALAR),A	1920 SEG:	DEFB 0
1190	JR NZ,FL	1440	JR NZ,V2	1690	RET	1930 ALAR:	DEFB 0
1200	LD (HL),24	1450	DEC HL	1700		1940 DIR:	DEFB 0,0,0,0,0,0
1210 FL:	LD A,(VIS)	1460	DEC HL	1710 RUT2:	LD DE,MEN	1950	DEFB 0,0,0,0,0,0
1220	OR A	1470	LD (HL),0	1720 RUT:	LD B,#FF	1960	DEFB 0,0,0
1230	CALL NZ,MOSTRA	1480	LD A,1	1730 ARR:	INC B	1970 MEN:	DEFB 0,0,"":,0,0
1240	LD A,(ALAR)	1490	LD (ALAR),A	1740	SUB 10	1980 VIS:	DEFB 0
1250	OR A	1500	RET	1750	JP NC,ARR	1990 CUR:	DEFB 0,0