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10 REM %AHORRO DE MEMORIA EN GRAFI
COS III#
20 REM
30 REM
40 FOR N=&9000 TO &92CB
50 READ A:SUMA=SUMA+A
60 POKE N,A
70 NEXT
80 IF SUMA<>102145 THEN PRINT "ERRO
R EN DATAS"
90 DATA 33,32,144,17,1,10,6
100 DATA 15,197,229,213,120,50,200
110 DATA 146,1,1,1,205,40,144
120 DATA 209,19,19,19,19,19,225
130 DATA 193,16,233,201,60,126,255
140 DATA 255,255,255,126,60,221,229
150 DATA 235,36,44,120,203,39,203
160 DATA 39,203,39,50,198,146,121
170 DATA 50,199,146,213,235,33,176
180 DATA 191,66,22,0,29,25,17
190 DATA 80,0,25,16,253,221,225
200 DATA 58,198,146,71,24,21,124
210 DATA 230,56,254,56,40,6,124
220 DATA 198,8,103,24,8,17,80
230 DATA 0,124,238,56,103,25,197
240 DATA 229,58,199,146,71,221,229
250 DATA 209,235,197,205,134,144,19
260 DATA 35,193,16,247,235,213,221
270 DATA 225,225,193,16,208,221,225
280 DATA 201,58,200,146,254,2,202
290 DATA 230,144,254,3,202,43,145
300 DATA 254,4,202,253,144,254,5
310 DATA 202,66,145,254,6,202,89
320 DATA 145,254,7,202,112,145,254
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330 DATA 8,202,20,145,254,9,202
340 DATA 135,145,254,10,202,158,145
350 DATA 254,11,202,181,145,254,12
360 DATA 202,204,145,254,13,202,227
370 DATA 145,254,14,202,250,145,254
380 DATA 15,202,17,146,6,4,78
390 DATA 175,203,121,196,86,146,203
400 DATA 17,203,121,196,89,146,203
410 DATA 17,18,19,16,237,201,6
420 DATA 4,78,175,203,121,196,98
430 DATA 146,203,17,203,121,196,101
440 DATA 146,203,17,18,19,16,237
450 DATA 201,6,4,78,175,203,121
460 DATA 196,92,146,203,17,203,121
470 DATA 196,95,146,203,17,18,19
480 DATA 16,237,201,6,4,78,175
490 DATA 203,121,196,104,146,203,17
500 DATA 203,121,196,107,146,203,17
510 DATA 18,19,16,237,201,6,4
520 DATA 78,175,203,121,196,110,146
530 DATA 203,17,203,121,196,115,146
540 DATA 203,17,18,19,16,237,201
550 DATA 6,4,78,175,203,121,196
560 DATA 120,146,203,17,203,121,196
570 DATA 125,146,203,17,18,19,16
580 DATA 237,201,6,4,78,175,203
590 DATA 121,196,150,146,203,17,203
600 DATA 121,196,155,146,203,17,18
610 DATA 19,16,237,201,6,4,78
620 DATA 175,203,121,196,160,146,20
3
630 DATA 17,203,121,196,167,146,203
640 DATA 17,18,19,16,237,201,6
650 DATA 4,78,175,203,121,196,140
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660 DATA 146,203,17,203,121,196,145	940 DATA 203,199,201,203,255,201,203
670 DATA 146,203,17,18,19,16,237	950 DATA 247,201,203,239,201,203,231
680 DATA 201,6,4,78,175,203,121	960 DATA 201,203,223,201,203,215,201
690 DATA 196,130,146,203,17,203,121	970 DATA 203,207,201,203,199,201,203
700 DATA 196,135,146,203,17,18,19	980 DATA 255,203,223,201,203,247,203
710 DATA 16,237,201,6,4,78,175	990 DATA 215,201,203,255,203,239,201
720 DATA 203,121,196,174,146,203,17	1000 DATA 203,247,203,231,201,203,223
730 DATA 203,121,196,181,146,203,17	1010 DATA 203,207,201,203,215,203,199
740 DATA 18,19,16,237,201,6,4	1020 DATA 201,203,255,203,207,201,203
750 DATA 78,175,203,121,196,188,146	1030 DATA 247,203,199,201,203,239,203
760 DATA 203,17,203,121,196,193,146	1040 DATA 223,201,203,231,203,215,201
770 DATA 203,17,18,19,16,237,201	1050 DATA 203,255,203,239,203,223,201
780 DATA 6,4,78,175,203,121,196	1060 DATA 203,247,203,231,203,215,201
790 DATA 54,146,203,17,203,121,196	1070 DATA 203,255,203,223,203,207,201
800 DATA 61,146,203,17,18,19,16	1080 DATA 203,247,203,215,203,199,201
810 DATA 237,201,6,4,78,175,203	1090 DATA 203,239,203,207,201,203,231
820 DATA 121,196,40,146,203,17,203	1100 DATA 203,199,201,0,0,1,0
830 DATA 121,196,47,146,203,17,18	
840 DATA 19,16,237,201,6,4,78	
850 DATA 175,203,121,196,68,146,203	
860 DATA 17,203,121,196,77,146,203	
870 DATA 17,18,19,16,237,201,203	
880 DATA 239,203,223,203,207,201,203	
890 DATA 231,203,215,203,199,201,203	
900 DATA 255,203,239,203,207,201,203	
910 DATA 247,203,231,203,199,201,203	
920 DATA 255,203,239,203,223,203,207	
930 DATA 201,203,247,203,231,203,215	

1	ORG #9000	50	LD HL, #C000-80	101	JP Z, PEN03
2	*L+	51	LD B, D	102	CP 4
3	***PINFIG***	52	LD D, 0	103	JP Z, PEN04
4	*L-	53	DEC E	104	CP 5
5	:	54	ADD HL, DE	105	JP Z, PEN05
6	:	55	LD DE, 80	106	CP 6
7	:	56	S_BUC: ADD HL, DE	107	JP Z, PEN06
8	;HL=DIRECCION DEL GRAFICO	57	DJNZ S_BUC	108	CP 7
9	;DE=COORDENADAS Y*256+X	58	POP IX	109	JP Z, PEN07
10	;BC=DIMENSIONES	59	LD A, (ALXD)	110	CP 8
11		60	LD B, A	111	JP Z, PEN08
12	LD HL, GRAF	61	JR COLOC	112	CP 9
13	LD DE, #0A01	62	P_BUC: LD A, H	113	JP Z, PEN09
14	LD B, 15	63	AND 56	114	CP 10
15	BUCLE: PUSH BC	64	CP 56	115	JP Z, PEN10
16	PUSH HL	65	JR Z, P_PAS	116	CP 11
17	PUSH DE	66	LD A, H	117	JP Z, PEN11
18	LD A, B	67	ADD A, B	118	CP 12
19	LD (COLOR), A	68	LD H, A	119	JP Z, PEN12
20	LD BC, #0101	69	JR COLOC	120	CP 13
21	CALL PINFIG	70	P_PAS: LD DE, 0080	121	JP Z, PEN13
22	POP DE	71	LD A, H	122	CP 14
23	INC DE	72	XOR 56	123	JP Z, PEN14
24	INC DE	73	LD H, A	124	CP 15
25	INC DE	74	ADD HL, DE	125	JP Z, PEN15
26	INC DE	75	COLOC: PUSH BC	126	PEN01: LD B, 4
27	INC DE	76	PUSH HL	127	LD C, (HL)
28	POP HL	77	LD A, (ANXD)	128	BUC01: XOR A
29	POP BC	78	LD B, A	129	BIT 7, C
30	DJNZ BUCLE	79	PUSH IX	130	CALL NZ, SET77
31	RET	80	POP DE	131	RL C
32		81	EX DE, HL	132	BIT 7, C
33	GRAF: DEFB 60, 126,	82	P_BUC1: PUSH BC	133	CALL NZ, SET66
	255, 255, 255,	83	CALL XPONS	134	RL C
	255, 126, 60	84	INC DE	135	LD (DE), A
34		85	INC HL	136	INC DE
35	:	86	POP BC	137	DJNZ BUC01
36	:	87	DJNZ P_BUC1	138	RET
37	PINFIG: PUSH IX	88	EX DE, HL	139	
38	EX DE, HL	89	PUSH DE	140	PEN02: LD B, 4
39	INC H	90	POP IX	141	LD C, (HL)
40	INC L	91	POP HL	142	BUC02: XOR A
41	LD A, B	92	POP BC	143	BIT 7, C
42	SLA A	93	DJNZ P_RUC	144	CALL NZ, SET33
43	SLA A	94	POP IX	145	RL C
44	SLA A	95	RET	146	BIT 7, C
45	LD (ALXD), A	96	XPONS:	147	CALL NZ, SET22
46	LD A, C	97	LD A, (COLOR)	148	RL C
47	LD (ANXD), A	98	CP 2	149	LD (DE), A
48	PUSH DE	99	JP Z, PEN02	150	INC DE
49	EX DE, HL	100	CP 3	151	DJNZ BUC02

152		RET		202	BIT 7,C	252	RL	C
153				203	CALL NZ,SET75	253	LD	(DE),A
154	PEN04:	LD B,4		204	RL C	254	INC	DE
155		LD C,(HL)		205	BIT 7,C	255	DJNZ	BUC09
156	BUC04:	XOR A		206	CALL NZ,SET64	256	RET	
157		RL C		207	RL C	257		
158		CALL NZ,SET55		208	LD (DE),A	258		
159		RL C		209	INC DE	259	PEN10:	LD B,4
160		BIT 7,C		210	DJNZ BUC05	260		LD C,(HL)
161		CALL NZ,SET44		211	RET	261	BUC10:	XOR A
162		RL C		212		262		BIT 7,C
163		LD (DE),A		213		263		CALL NZ,SET31
164		INC DE		214	PEN06: LD B,4	264		RL C
165		DJNZ BUC04		215	LD C,(HL)	265		BIT 7,C
166		RET		216	BUC06: XOR A	266		CALL NZ,SET20
167				217	BIT 7,C	267		RL C
168				218	CALL NZ,SET53	268		LD (DE),A
169	PEN08:	LD B,4		219	RL C	269		INC DE
170		LD C,(HL)		220	BIT 7,C	270		DJNZ BUC10
171	BUC08:	XOR A		221	CALL NZ,SET42	271		RET
172		BIT 7,C		222	RL C	272		
173		CALL NZ,SET11		223	LD (DE),A	273		
174		RL C		224	INC DE	274	PEN11:	LD B,4
175		BIT 7,C		225	DJNZ BUC06	275		LD C,(HL)
176		CALL NZ,SET00		226	RET	276	BUC11:	XOR A
177		RL C		227		277		BIT 7,C
178		LD (DE),A		228		278		CALL NZ,SET731
179		INC DE		229	PEN07: LD B,4	279		RL C
180		DJNZ BUC08		230	LD C,(HL)	280		BIT 7,C
181		RET		231	BUC07: XOR A	281		CALL NZ,SET620
182				232	BIT 7,C	282		RL C
183				233	CALL NZ,SET753	283		LD (DE),A
184	PEN03:	LD B,4		234	RL C	284		INC DE
185		LD C,(HL)		235	BIT 7,C	285		DJNZ BUC11
186	BUC03:	XOR A		236	CALL NZ,SET642	286		RET
187		BIT 7,C		237	RL C	287		
188		CALL NZ,SET73		238	LD (DE),A	288		
189		RL C		239	INC DE	289	PEN12:	LD B,4
190		BIT 7,C		240	DJNZ BUC07	290		LD C,(HL)
191		CALL NZ,SET162		241	RET	291	BUC12:	XOR A
192		RL C		242		292		BIT 7,C
193		LD (DE),A		243		293		CALL NZ,SET51
194		INC DE		244	PEN09: LD B,4	294		RL C
195		DJNZ BUC03		245	LD C,(HL)	295		BIT 7,C
196		RET		246	BUC09: XOR A	296		CALL NZ,SET40
197				247	BIT 7,C	297		RL C
198				248	CALL NZ,SET71	298		LD (DE),A
199	PEN05:	LD B,4		249	RL C	299		INC DE
200		LD C,(HL)		250	BIT 7,C	300		DJNZ BUC12
201	BUC05:	XOR A		251	CALL NZ,SET60	301		RET

302				354 SET420:	SET	4,A	406 SET62:	SET	6,A
303 PEN13:	LD	B,4		355	SET	2,A	407	SET	2,A
304	LD	C,(HL)		356	SET	0,A	408	RET	
305 BUC13:	XOR	A		357	RET		409 SET75:	SET	7,A
306	BIT	7,C		358			410	SET	5,A
307	CALL	NZ,SET751		359			411	RET	
308	RL	C		360 SET751:	SET	7,A	412 SET64:	SET	6,A
309	BIT	7,C		361	SET	5,A	413	SET	4,A
310	CALL	NZ,SET640		362	SET	1,A	414	RET	
311	RL	C		363	RET		415 SET31:	SET	3,A
312	LD	(DE),A		364			416	SET	1,A
313	INC	DE		365			417	RET	
314	DJNZ	BUC13		366 SET640:	SET	6,A	418 SET20:	SET	2,A
315	RET			367	SET	4,A	419	SET	0,A
316				368	SET	0,A	420	RET	
317				369	RET		421 SET71:	SET	7,A
318 PEN14:	LD	B,4		370			422	SET	1,A
319	LD	C,(HL)		371			423	RET	
320 BUC14:	XOR	A		372 SET7531:	SET	7,A	424 SET60:	SET	6,A
321	BIT	7,C		373	SET	5,A	425	SET	0,A
322	CALL	NZ,SET531		374	SET	3,A	426	RET	
323	RL	C		375	SET	1,A	427 SET53:	SET	5,A
324	BIT	7,C		376	RET		428	SET	7,A
325	CALL	NZ,SET420		377			429	RET	
326	RL	C		378			430 SET42:	SET	4,A
327	LD	(DE),A		379 SE6420:	SET	6,A	431	SET	2,A
328	INC	DE		380	SET	4,A	432	RET	
329	DJNZ	BUC14		381	SET	2,A	433 SET753:	SET	7,A
330	RET			382	SET	0,A	434	SET	5,A
331				383	RET		435	SET	3,A
332				384			436	RET	
333 PEN15:	LD	B,4		385			437 SET642:	SET	6,A
334	LD	C,(HL)		386			438	SET	4,A
335 BUC15:	XOR	A		387 SET77:	SET	7,A	439	SET	2,A
336	BIT	7,C		388	RET		440	RET	
337	CALL	NZ,SE7531		389 SET66:	SET	6,A	441 SET731:	SET	7,A
338	RL	C		390	RET		442	SET	3,A
339	BIT	7,C		391 SET55:	SET	5,A	443	SET	1,A
340	CALL	NZ,SE6420		392	RET		444	RET	
341	RL	C		393 SET44:	SET	4,A	445 SET620:	SET	6,A
342	LD	(DE),A		394	RET		446	SET	2,A
343	INC	DE		395 SET33:	SET	3,A	447	SET	0,A
344	DJNZ	BUC15		396	RET		448	RET	
345	RET			397 SET22:	SET	2,A	449 SET51:	SET	5,A
346				398	RET		450	SET	1,A
347				399 SET11:	SET	1,A	451	RET	
348				400	RET		452 SET40:	SET	4,A
349				401 SET00:	SET	0,A	453	SET	0,A
350 SET531:	SET	5,A		402	RET		454	RET	
351	SET	3,A		403 SET73:	SET	7,A	455		
352	SET	1,A		404	SET	3,A	456 ALXO:	DEFS	1
353	RET			405	RET		457 ANXO:	DEFS	1
							458 COI OR:	DEFB	1