

```

LOCATION OBJECT CODE LINE SOURCE LINE
142C 218A00
142F CD1968 LD HL,8A00H ;DISPLAY 60 SECONDS
5288 CALL TIMER_1
5289 * TURN OFF DISPLAY
5290 LD B,1 ;BLANK SCREEN
5291 LD C,10000000H
5292 CALL WRITE_REGISTER
5293 JR $ ;SOFT HALT
5294 *****
5295 *****
5296 *****
5297 *****
5298 ***** DATA TABLES *****
5299 *****
5300 *****
5301 *****
5302 ***** COLOR_NAME_TABLE *****
5303 *****
5304 LOGO_COLORS HEX 00,00,00,FO,FO,FO,FO,FO,FO,FO,FO,FO,FO,FO
5305 HEX 00,80,90,80,30,40
5306 *****
5307 ***** PATTERN_NAME_TABLE *****
5308 *****
5309 LOGO_NAMES EQU $
5310 <1440>
5311 HEX 60,61,68,69,70,71,78,79,80,81,88,89
5312 HEX 64,65,6C,74,75,7C,84,85,8C,8D
5313 HEX 62,63,6A,68,72,73,7A,7B,82,83,8A
5314 HEX 88,66,67,6D,76,77,7D,86,87,8E,8F
5315 *****
5316 DEFB "TURN GAME OFF"
5317 *****
5318 DEFB "BEFORE INSERTING CARTRIDGE"
5319 *****
5319 DEFB "OR EXPANSION MODULE."
5320 *****
5320 DEFB 10H," 1982 COLECO"
5321 *****
5322 TRADEMARK HEX 1E,1F
1438 000000F0F0
1440 F0F0F0F0F0
1445 F0F0
1447 D080908030
144C 40
144D 6061686970
1452 7178798081
1457 8889
1459 64656C7475
145E 7C84858C8D
1463 62636A6872
1468 737A7B8283
146D 8A
146E 8866676D76
1473 777D86878E
1478 8F
1479 5455524E20
147E 47414D4520
1483 4F4646
1486 4245464F52
1488 4520494E53
1490 455254494E
1495 4720434152
149A 5452494447
149F 45
14A0 4F52204558
14A5 50414E5349
14AA 4F4E204D4F
14AF 44554C452E
14B4 1020313938
14B9 3220434F4C
14BE 45434F
14C1 1E1F
5321 *****
5322 TRADEMARK HEX 1E,1F

```

LOCATION	OBJECT CODE LINE	SOURCE LINE	EQU \$
	5323		
	5324		
	5325		
	5326		
	5327		
	5328		
	5329		
	5330		
	5331	*GR0	
	5332		00,00,00,00,00,00,00,00
	5333	*GR1	
	5334		3F,7F,FF,FF,F3,F3,F0,F0
	5335	*GR2	
	5336		00,80,C0,C0,C0,C0,00,00
	5337	*GR3	
	5338		3F,7F,FF,FF,F3,F3,F3,F3
	5339	*GR4	
	5340		00,80,C0,C0,C0,C0,C0,C0
	5341	*GR5	
	5342		F0,F0,F0,F0,F0,F0,F0,F0
	5343	*GR6	
	5344		FF,FF,FF,F0,F0,FF,FF,FF
	5345	*GR7	
	5346		C0,C0,C0,00,00,00,00,00
	5347	*GR8	
	5348		F1,F1,F1,7B,7B,7B,3F,3F
	5349	*GR9	
	5350		E0,E0,E0,C0,C0,C0,80,80
	5351	*GR10	
	5352		1F,3F,7F,79,78,7F,7F,3F
	5353	*GR11	
	5354		80,C0,E0,E0,00,80,C0,E0
	5355	*GR12	
	5356		F3,F3,FB,FB,FB,FF,FF,FF
	5357	*GR13	
	5358		C0,C0,C0,C0,C0,C0,C0,C0
	5359	*GR14	
	5360		F3,F3,FF,FF,71,3F,00,00
	5361	*GR15	
	5362		C0,C0,C0,C0,80,00,00,00
	5363	*GR16	

<14C3> ***** PATTERN GENERATOR TABLES *****

LOCATION	OBJECT CODE LINE	SOURCE LINE			
1543	FF0FFFFF	5364	HEX	FO,FO,FF,FF,FF,FF,00,00	
1548	FF0000				
1548	0000C0C0	5365 *GR17	HEX	00,00,C0,C0,C0,C0,00,00	
1550	C00000	5366			
1553	3F1F1F0E	5367 *GR18	HEX	3F,1F,1F,1F,0E,0E,00,00	
1558	0E0000	5368			
1558	8000000000	5369 *GR19	HEX	80,00,00,00,00,00,00,00	
1560	000000	5370			
1563	F0F0F0F0	5371 *GR20	HEX	F0,F0,F0,F0,F0,F0,00,00	
1568	F00000	5372			
1568	1F01797F3F	5373 *GR21	HEX	1F,01,79,7F,3F,1F,00,00	
1570	1F0000	5374			
1573	E0E0E0E0C0	5375 *GR22	HEX	E0,E0,E0,E0,C0,80,00,00	
1578	800000	5376			
1578	FFF7F7F3	5377 *GR23	HEX	FF,F7,F7,F7,F3,F3,00,00	
1580	F30000	5378			
1583	C0C0C0C0C0	5379 *GR24	HEX	C0,C0,C0,C0,C0,C0,00,00	
1588	C00000	5380			
1588	<1588>	5381	EQU \$		
1588	7E8180A1A1	5382 ASC TABLE	HEX	7E,81,80,A1,A1,BD,81,7E	;COPYRIGHT
1590	80817E	5383 * C=1D			
1593	1F04040400	5384	HEX	1F,4,4,4,0,0,0,0	; TRADE
1598	000000	5385 * t=1E			
1598	44C545400	5386	HEX	44,6C,54,54,0,0,0,0	; MARK
15A0	000000	5387 * m=1F			
15A3	0000000000	5388	HEX	0,0,0,0,0,0,0,0	
15A8	000000	5389 * =20	DEFB		
15A8	20202020	5390 SPACE	DEFB		
15B0	002000	5391 * l=21	DEFB		
15B3	5050500000	5392	DEFB		
15B8	000000	5393 * "=22	DEFB		
15B8	5050F850F8	5394	DEFB		
15C0	505000	5395 * #=23	DEFB		
15C3	2078A07028	5396	DEFB		
15C8	F02000	5397 * \$=24	DEFB		
15C8	C0C8102040	5398	DEFB		
15D0	981800	5399 * X=25	DEFB		
15D3	40A0A040A8	5400	DEFB		
15D3	40A0A040A8	5401 * &=26	DEFB		

XACTION OBJECT CODE LINE SOURCE LINE

1508	906800					
		5403 * 1=27				
1508	2020200000	5404	DEFB	20H,20H,20H,0,0,0,0,0		
15E0	000000					
		5405 * (=28				
15E3	2040808080	5406	DEFB	20H,40H,80H,80H,80H,40H,20H,0		
15E8	402000					
		5407 *)=29				
15E8	2010000000	5408	DEFB	20H,10H,08H,08H,08H,10H,20H,0		
15F0	102000					
		5409 * *=2A				
15F3	20A8702070	5410	DEFB	20H,0A8H,70H,20H,70H,0A8H,20H,0		
15F8	A02000					
		5411 * 1=28				
15F8	002020F820	5412	DEFB	0,20H,20H,0FBH,20H,20H,0,0		
1600	200000					
		5413 * ,=2C				
1603	0000000020	5414	DEFB	0,0,0,0,20H,20H,40H,0		
1608	204000					
		5415 * -=2D				
1608	000000F800	5416	DEFB	0,0,0,0,0FBH,0,0,0,0		
1610	000000					
		5417 * =2E				
1613	0000000000	5418	DEFB	0,0,0,0,0,0,20H,0		
1618	002000					
		5419 * /=2F				
1618	0008102040	5420	DEFB	0,0,10H,20H,40H,80H,0,0		
1620	800000					
		5421				
	<1623>	5422 NUMBER_TBL	EQU \$			
		5423 * 0=30				
1623	708898ABC8	5424	DEFB	70H,88H,98H,0A8H,0CBH,0CBH,088H,70H,0		
1628	887000					
		5425 * 1=31				
1628	2060202020	5426	DEFB	20H,60H,20H,20H,20H,20H,70H,0		
1630	207000					
		5427 * 2=32				
1633	7088083040	5428	DEFB	70H,88H,08,30H,40H,80H,0FBH,0		
1638	80F800					
		5429 * 3=33				
1638	F808103008	5430	DEFB	0FBH,08,10H,30H,08,88H,70H,0		
1640	887000					
		5431 * 4=34				
1643	10305090F8	5432	DEFB	10H,30H,50H,90H,0FBH,10H,10H,0		
1648	101000					
		5433 * 5=35				
1648	F880F00808	5434	DEFB	0FBH,80H,0FBH,08H,08H,88H,70H,0		
1650	887000					
		5435 * 6=36				
1653	384080F088	5436	DEFB	38H,40H,80H,0FBH,08H,88H,70H,0		
1658	887000					
		5437 * 7=37				
1658	F808102040	5438	DEFB	0FBH,08H,10H,20H,40H,40H,40H,0		
1660	404000					
		5439 * 8=38				
1663	7088887088	5440	DEFB	70H,88H,88H,70H,88H,88H,70H,0		
1668	887000					

LOCATION	OBJECT CODE LINE	SOURCE LINE
1668	7088887808	5441 * 9=39
1670	10E000	5442
1673	0000200020	5443 * :=3A
1678	000000	5444
1678	0000200020	5445 * ;=3B
1680	204000	5446
1683	1020408040	5447 * <=3C
1688	201000	5448
1688	0000F800F8	5449 * =30
1690	000000	5450
1693	4020100810	5451 * >=3E
1698	204000	5452
1698	7088102020	5453 * 7=3F
16A0	002000	5454
16A3	7088A88880	5455 * @=40
16A8	807800	5456
16AB	<16AB>	5457
16AB	20508888F8	5458 ASCII TBL
16B0	888800	5459 * A=41
16B3	F08888F088	5461 * B=42
16B8	88F000	5462
16B8	7088800800	5463 * C=43
16C0	887000	5464
16C3	F088888888	5465 * D=44
16C8	88F000	5466
16CB	F88080F080	5467 * E=45
16D0	80F800	5468
16D3	F88080F080	5469 * F=46
16D8	808000	5470
16D8	7880808098	5471 * G=47
16E0	887800	5472
16E3	888888F888	5473 * H=48
16E8	888800	5474
16E8	7020202020	5475 * I=49
16F0	207000	5476
16F3	0808080808	5477 * J=4A
16F8	887000	5478
		5479 * K=4B

70H,88H,88H,78H,08H,10H,0E0H,0
 0,0,20H,0,20H,0,0,0
 0,0,20H,0,20H,20H,40H,0
 10H,20H,40H,80H,40H,20H,10H,0
 0,0,0F8H,0,0F8H,0,0,0
 40H,20H,10H,08H,10H,20H,40H,0
 70H,88H,10H,20H,20H,0,20H,0
 70H,88H,0A8H,088H,080H,080H,78H,0
 20H,50H,88H,88H,0F8H,88H,88H,0
 0F0H,88H,88H,0F0H,88H,88H,0F0H,0
 70H,88H,80H,80H,80H,88H,70H,0
 0F0H,88H,88H,88H,88H,88H,0F0H,0
 0F8H,80H,80H,0F0H,080H,80H,0F8H,0
 0F8H,80H,80H,0F0H,80H,80H,80H,0
 78H,80H,80H,80H,98H,88H,78H,0
 88H,88H,88H,0F8H,88H,88H,88H,0
 70H,20H,20H,20H,20H,20H,70H,0
 8,8,8,8,8,88H,70H,0

LOCATION	OBJECT CODE	LINE	SOURCE	LINE
16FB	8890A0C0A0	5480	DEFB	88H, 90H, 0A0H, 0C0H, 0A0H, 90H, 88H, 0
1700	908000	5481 * L=4C		
1703	8080808000	5482	DEFB	80H, 80H, 80H, 80H, 80H, 80H, 80H, 0FBH, 0
1708	80FB80	5483 * M=4D		
1708	880A0A088	5484	DEFB	88H, 008H, 0A8H, 0A8H, 88H, 88H, 88H, 88H, 0
1710	888800	5485 * N=4E		
1713	8888C8A898	5486	DEFB	88H, 88H, 0C8H, 0A8H, 98H, 88H, 88H, 88H, 0
1718	888800	5487 * O=4F		
1718	7088888888	5488	DEFB	70H, 88H, 88H, 88H, 88H, 88H, 88H, 70H, 0
1720	887000	5489 * P=50		
1723	F08888F080	5490	DEFB	0F0H, 88H, 88H, 0F0H, 80H, 80H, 80H, 80H, 00
1728	808000	5491 * Q=51		
1728	7088888888	5492	DEFB	70H, 88H, 88H, 88H, 88H, 0A8H, 90H, 68H, 0
1730	906000	5493 * R=52		
1733	F08888F0A0	5494	DEFB	0F0H, 88H, 88H, 0F0H, 0A0H, 90H, 88H, 0
1738	908800	5495 * S=53		
1738	7088887008	5496	DEFB	70H, 88H, 80H, 70H, 08H, 88H, 70H, 0
1740	887000	5497 * T=54		
1743	F820202020	5498	DEFB	0FBH, 20H, 20H, 20H, 20H, 20H, 20H, 20H, 0
1748	202000	5499 * U=55		
1748	8888888888	5500	DEFB	88H, 88H, 88H, 88H, 88H, 88H, 88H, 70H, 0
1750	887000	5501 * V=56		
1753	8888888888	5502	DEFB	88H, 88H, 88H, 88H, 88H, 88H, 50H, 20H, 0
1758	502000	5503 * W=57		
1758	8888888888	5504	DEFB	88H, 88H, 88H, 88H, 0A8H, 0A8H, 008H, 88H, 0
1760	888800	5505 * X=58		
1763	8888502050	5506	DEFB	88H, 88H, 50H, 20H, 50H, 88H, 88H, 88H, 0
1768	808000	5507 * Y=59		
1768	8888502020	5508	DEFB	88H, 88H, 50H, 20H, 20H, 20H, 20H, 20H, 0
1770	202000	5509 * Z=5A		
1773	F808102040	5510	DEFB	0FBH, 08H, 10H, 20H, 40H, 80H, 0FBH, 0
1778	80FB80	5511 * I=5B		
1778	F8C0C0C0C0	5512	DEFB	0FBH, 0C0H, 0C0H, 0C0H, 0C0H, 0C0H, 0C0H, 0FBH, 0
1780	C0FB80	5513 * \=5C		
1783	0800402010	5514	DEFB	0, 80H, 40H, 20H, 10H, 08H, 0, 0
1788	080000	5515 * J=5D		
1788	F818181818	5516	DEFB	0FBH, 18H, 18H, 18H, 18H, 18H, 18H, 0FBH, 0
1790	18FB80	5517 * - 5A		

LOCATION	OBJECT CODE	LINE	SOURCE	LINE
1793	0000205088	5518	DEFB	0,0,20H,50H,88H,0,0,0
1798	0000000			
		5519 * -5F		
1798	0000000000	5520	DEFB	0,0,0,0,0,0,0,0,0,0,0
17A0	00000F8			
		5521 * 1=60		
17A3	4020100000	5522	DEFB	40H,20H,10H,0,0,0,0,0
17A8	000000			
		5523 * a=61		
17A8	00007080F8	5524	DEFB	0,0,70H,88H,0F8H,88H,88H,0
17B0	888800			
		5525 * b=62		
17B3	0000F04870	5526	DEFB	0,0,0F0H,48H,70H,48H,0F0H,0
17B8	48F000			
		5527 * c=63		
17B8	0000788080	5528	DEFB	0,0,78H,80H,80H,80H,78H,0
17C0	807800			
		5529 * d=64		
17C3	0000F04848	5530	DEFB	0,0,0F0H,048H,048H,048H,0F0H,0
17C8	48F000			
		5531 * e=65		
17CB	0000F080E0	5532	DEFB	0,0,0F0H,080H,0E0H,80H,0F0H,0
17D0	80F000			
		5533 * f=66		
17D3	0000F080E0	5534	DEFB	0,0,0F0H,080H,0E0H,080H,80H,0
17D8	808000			
		5535 * g=67		
17D8	0000788088	5536	DEFB	0,0,78H,80H,088H,88H,70H,0
17E0	887000			
		5537 * h=68		
17E3	00008888F8	5538	DEFB	0,0,88H,88H,0F8H,88H,88H,0
17E8	888000			
		5539 * i=69		
17EB	0000F82020	5540	DEFB	0,0,0F8H,20H,20H,20H,0F8H,0
17F0	20F800			
		5541 * j=6A		
17F3	0000702020	5542	DEFB	0,0,70H,20H,20H,0A0H,0E0H,0
17F8	A0E000			
		5543 * k=6B		
17FB	000090A0C0	5544	DEFB	0,0,90H,0A0H,0C0H,0A0H,90H,0
1800	A09000			
		5545 * l=6C		
1803	0000808080	5546	DEFB	0,0,80H,80H,80H,80H,0F8H,0
1808	80F800			
		5547 * m=6D		
1808	00008808A8	5548	DEFB	0,0,88H,080H,0A8H,88H,88H,0
1810	888000			
		5549 * n=6E		
1813	000088C8A8	5550	DEFB	0,0,88H,08C8H,0A8H,88H,88H,0
1818	888000			
		5551 * o=6F		
181B	0000F88888	5552	DEFB	0,0,0F8H,088H,88H,88H,0F8H,0
1820	88F800			
		5553 * p=70		
1823	0000F088F0	5554	DEFB	0,0,0F0H,88H,0F0H,80H,80H,0
1828	808000			
		5555 * q=71		

LOCATION	OBJECT CODE	LINE	SOURCE LINE
182B	0000F888A8	5556	DEFB 0,0,0FBH,8BH,0ABH,90H,0E0H,0
1830	90E000	5557 * r=72	
1833	0000F888F8	5558	DEFB 0,0,0FBH,8BH,0FBH,0A0H,90H,0
1838	A09000	5559 * s=73	
1838	0000788070	5560	DEFB 0,0,78H,80H,70H,08H,0F0H,0
1840	08F000	5561 * t=74	
1843	0000F82020	5562	DEFB 0,0,0FBH,20H,20H,20H,20H,0
1848	202000	5563 * u=75	
1848	0000888888	5564	DEFB 0,0,88H,88H,88H,88H,70H,00
1850	887000	5565 * v=76	
1853	0000888890	5566	DEFB 0,0,88H,88H,90H,0A0H,40H,0
1858	A04000	5567 * w=77	
1858	00008888A8	5568	DEFB 0,0,88H,88H,0ABH,008H,88H,00
1860	D88800	5569 * x=78	
1863	0000886020	5570	DEFB 0,0,88H,60H,20H,60H,88H,0
1868	608800	5571 * y=79	
1868	0000885020	5572	DEFB 0,0,88H,50H,20H,20H,20H,0
1870	202000	5573 * z=7A	
1873	0000F81020	5574	DEFB 0,0,0FBH,10H,20H,40H,0FBH,0
1878	40F800	5575 * (=7B	
1878	384020C020	5576	DEFB 38H,40H,20H,0C0H,20H,40H,38H,0
1880	403800	5577 * >=7C	
1883	4020100810	5578	DEFB 40H,20H,10H,08H,10H,20H,40H,0
1888	204000	5579 *)=7D	
1888	E010201820	5580	DEFB 0E0H,10H,20H,18H,20H,10H,0E0H,0
1890	10E000	5581 * -=7E	
1893	40A8100000	5582	DEFB 40H,0ABH,10H,0,0,0,0,0
1898	000000	5583 * #=7F	
1898	A850A850A8	5584	DEFB 0ABH,50H,0ABH,50H,0ABH,50H,0ABH,0
18A0	50A800	5585	
EQW \$			
<18A3>			
18A3	01020E0F08	5586 OBJ_TABLE	DEFB 1,2,14,15,8,9,18,19
18A8	091213	5587	
18A8	03040E0F05	5588	DEFB 3,4,14,15,5,20,0,0
1880	140000	5589	
1883	050010110A	5589	DEFB 5,0,16,17,10,11,21,22
1888	081516	5590	DEFB 6,7,16,17,5,20,0,0
1888	0607101105	5590	
18C0	140000	5591	DEFB 1,2,14,15,3,4,14,15
18C3	01020E0F03	5591	
18CB	040E0F	5592	DEFB 3,4,14,15,12,13,23,24
18CB	03040E0F0C	5592	

LOCATION OBJECT CODE LINE SOURCE LINE

```

1000 001718
1003 FF
5593          HEX FF          ;END OF TABLE INDICATOR
5594
5595 *****
5596 *
5597 *          SUBROUTINES
5598 *
5599 *****
5600 ***** OS SUBROUTINES *****
5601 *****
5602
5603 * FILL_VRAM_ WRITES TO VRAM ADDRESS POINTED TO BY HL THE VALUE IN A
5604 * DE TIMES.
5605
5606 * VRAM STARTING ADDRESS IN HL
5607 * NO OF BYTES IN DE
5608 * VALUE TO BE WRITTEN IN A
5609
5610 FILL_VRAM_ LD C,A
5611          LD A,L
5612          OUT (MODE_1_PORT),A
5613          LD A,H
5614          OR 40H
5615          OUT (MODE_1_PORT),A
5616          LD A,C
5617          OUT (MODE_0_PORT),A
5618          DEC DE
5619          LD A,D
5620          OR E
5621          JR NZ,FILL
5622          CALL READ_REGISTER
5623          RET
5624
5625
5626 * MODE_1_ SETS UP GRAPHICS MODE 1 WITH VRAM ADDRESSES AS IN THE TABLE
5627 * BELOW AND EXITS WITH THE VIDEO BLANKED AND A BLACK BACKGROUND.
5628
5629 *          VDP MEMORY MAP
5630 *          3800H-3FFFH SPRITE GENERATOR TABLE
5631 *          2000H-37FFH PATTERN COLOR TABLE
5632 *          1800H-1B7FH SPRITE ATTRIBUTE TABLE
5633 *          1800H-1AFFH PATTERN NAME TABLE
5634 *          0000H-17FFH PATTERN GENERATOR TABLE
5635
5636 MODE_1_   LD B,0
5637          LD C,0
5638          CALL WRITE_REGISTER
5639
5640          LD B,1
5641          LD C,10000000B
5642          CALL WRITE_REGISTER
5643
5644 * SET UP TABLE ADDRESSES IN VRAM
5645
5646 * PATTERN NAME TABLE
5647          LD A,2
5648          LD HL,1800H

```

ATTN	OBJECT CODE	LINE	SOURCE LINE
18FC	CD1FB8	5649	CALL INIT_TABLE
		5650	
18FF	3E04	5651	* PATTERN COLOR TABLE
1901	212000	5652	LD A,4
1904	CD1FB8	5653	LD HL,2000H
		5654	CALL INIT_TABLE
		5655	
1907	3E03	5656	* PATTERN GENERATOR TABLE
1909	210000	5657	LD A,3
190C	CD1FB8	5658	LD HL,0
		5659	CALL INIT_TABLE
		5660	
190F	3E00	5661	* SPRITE ATTRIBUTE TABLE
1911	211800	5662	LD A,0
1914	CD1FB8	5663	LD HL,1800H
		5664	CALL INIT_TABLE
		5665	
1917	3E01	5666	* SPRITE GENERATOR TABLE
1919	213800	5667	LD A,1
191C	CD1FB8	5668	LD HL,3800H
		5669	CALL INIT_TABLE
		5670	
191F	0607	5671	* SET UP BLACK BACKGROUND
1921	0E00	5672	LD B,7
1923	CD1FD9	5673	LD C,0
1926	C9	5674	CALL WRITE_REGISTER
		5675	RET
		5676	
1927	2115B8	5677	* LOAD_ASCII_WRITES OUT ASCII CHARACTER GENERATORS TO THE PATTERN
192A	110010	5678	GENERATOR TABLE. INIT_TABLE MUST BE USED TO SET UP
192D	FD210060	5679	THE TABLE ADDRESS.
1931	3E03	5680	
1933	CD1FBE	5681	LD HL,ASC_TABLE
		5682	LD DE,10H
		5683	LD IY,96
		5684	LD A,3
		5685	CALL PUT_VRAM
		5686	
1936	2115A3	5687	* WRITE OUT A BLANK PATTERN FOR ASCII_0
1939	110000	5688	LD HL,SPACE
193C	FD210001	5689	LD DE,0
1940	3E03	5690	LD IY,1
1942	CD1FBE	5691	LD A,3
1945	C9	5692	CALL PUT_VRAM
		5693	RET
		5694	
		5695	***** LOCAL SUBROUTINES *****
		5696	
1946	010000	5697	PARSE
1949	7E	5698	P_LOOP
194A	FE2F	5699	LD BC,0
194C	C8		LD A,IHL
194D	23		CP "/"
194E	03		RET Z
194F	18FB		INC HL
			INC BC
			JR P_LOOP
1951	C5		CENTER_PRT
			PUSH BC
			INC=LENS

LOCATION	OBJECT CODE	LINE	SOURCE	LINE
1952	FDE1	5706	POP	IY
1954	3E20	5707	LD	A,32
1956	99	5708	SBC	A,C
1957	1F	5709	RRA	
1958	0600	5710	LD	B,D
195A	4F	5711	LD	C,A
195B	09	5712	ADD	HL,BC
195C	44	5713	LD	B,H
195D	40	5714	LD	C,L
195E	62	5715	LD	H,D
195F	68	5716	LD	L,E
1960	50	5717	LD	D,B
1961	59	5718	LD	E,C
1962	3E02	5719	LD	A,2
1964	CD1FB	5720	CALL	PUT_VRAM
1967	C9	5721	RET	
		5722		
1968	211700	5723	LD	HL,1700H
1968	1100FF	5724	LD	DE,255
196E	18	5725	DEC	DE
196F	7A	5726	LD	A,D
1970	B3	5727	OR	E
1971	20FB	5728	JR	NZ,TIMER_2
1973	28	5729	DEC	HL
1974	7C	5730	LD	A,H
1975	B5	5731	OR	L
1976	20F3	5732	JR	NZ,TIMER_1
1978	C9	5733	RET	
		5734		PROG

;IY= #ITEMS TO BE TRANSFERRED IN PUT_VRAM
;DE= LOCATION OF START OF STRING
; A=32-C
; DIV 2

LOCATION OBJECT CODE LINE SOURCE LINE

```

5736 ***** EXTERNAL SYMBOLS *****
5737 *****
5738 *****
5739 *****
5740 *****
5741 * EXTERNAL ROUTINES FROM OS
5742
5743 ;EXT INIT TABLE
5744 ;EXT PUT_VRAM
5745 ;EXT WRITE_REGISTER
5746 ;EXT WRITE_VRAM
5747 ;EXT VRAM_ADDR TABLE
5748 ;EXT SPRITEMEM_TBL
5749 ;EXT SPRITEGEN_TBL
5750 ;EXT PATTRNAMEM_TBL
5751 ;EXT PATTRNGENTBL
5752 ;EXT COLORTABLE
5753 ;EXT LOAD_ASCII
5754 ;EXT FILL_VRAM
5755 ;EXT MODE_1
5756 *****
5757 ***** DEFINITIONS *****
5758 *****
5759 ***** EXPORTS *****
5760 *****
5761 GLB GAME_OPT_
5762 *****
5763 ***** DISPLAY GAME OPTION SCREEN *****
5764 *****
5765 * GAME_OPT_ DISPLAYS THE GAME OPTION SCREEN WITH WHITE LETTERS ON A
5766 * BLUE BACKGROUND. VDP IS LEFT IN MODE 1 WITH THE VRAM
5767 * MEMORY MAP AS FOLLOWS.
5768 *
5769 * VDP MEMORY MAP
5770 * 3800H-3FFFH SPRITE GENERATOR TABLE
5771 * 2000H-37FFH PATTERN COLOR TABLE
5772 * 1800H-1B7FFH SPRITE ATTRIBUTE TABLE
5773 * 1800H-1AFFH PATTERN NAME TABLE
5774 * 0000H-17FFFH PATTERN GENERATOR TABLE
5775
5776 PROG
5777 GAME_OPT_ LD HL,0 ;ZERO VRAM
5778 LD DE,16384
5779 LD A,0
5780 CALL FILL_VRAM
5781
5782 * SET UP VDP WITH MODE 1
5783 CALL MODE_1
5784
5785 * SET UP BACKGROUND COLOR
5786 LD B,0FH
5787 LD C,4
5788 CALL WRITE_REGISTER
5789 ***** WRITE OUT PATTERN GEN TABLE *****
5790 *****
5791 CALL LOAD_ASCII
5792 *****

```

1979 210000
197C 114000
197F 3E00
1981 CD1F82

1984 CD1F85

1987 060F
1989 0E04
198B CD1FD9

198E CD1F7F

LOCATION OBJECT CODE LINE SOURCE LINE

```

5793 ***** WRITE OUT PATTERN_NAME_TABLE *****
5794 LD HL,LINE_1
5795 LD DE,37
5796 LD Y,22
5797 LD A,2
5798 CALL PUT_VRAM
5799 LD HL,LINE_2
5800 LD DE,101
5801 LD Y,23
5802 LD A,2
5803 CALL PUT_VRAM
5804 LD DE,197
5805 CALL WRITE_L3
5806 LD DE,261
5807 CALL WRITE_L3
5808 LD DE,325
5809 CALL WRITE_L3
580A LD DE,389
580B CALL WRITE_L3
580C LD DE,485
580D CALL WRITE_L3
580E LD DE,549
580F CALL WRITE_L3
5810 LD DE,613
5811 CALL WRITE_L3
5812 LD DE,677
5813 CALL WRITE_L3
5814 LD DE,261
5815 CALL WRITE_L4
5816 LD DE,325
5817 CALL WRITE_L5
5818 LD DE,389
5819 CALL WRITE_L6
581A LD HL,LINE_7
581B LD DE,485
581C CALL WRITE_CHAR
581D LD HL,LINE_8
581E LD DE,549
581F CALL WRITE_CHAR
5820
5821
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LOCATION OBJECT CODE LINE SOURCE LINE

1A03	211AC4	5850	LD HL,LINE_9
1A06	110265	5851	LD DE,613
1A09	CD1AE4	5852	CALL WRITE_CHAR
		5853	
1A0C	211AC5	5854	LD HL,LINE_10
1A0F	1102A5	5855	LD DE,677
1A12	CD1AE4	5856	CALL WRITE_CHAR
		5857	
1A15	11010F	5858	LD DE,271
1A18	CD1AD7	5859	CALL WRITE_L4
		5860	
1A1B	11014F	5861	LD DE,335
1A1E	CD1ADC	5862	CALL WRITE_L5
		5863	
1A21	11018F	5864	LD DE,399
1A24	CD1AE1	5865	CALL WRITE_L6
		5866	
1A27	1101F1	5867	LD DE,497
1A2A	CD1AEE	5868	CALL WRITE_L11
		5869	
1A2D	110231	5870	LD DE,561
1A30	CD1AEE	5871	CALL WRITE_L11
		5872	
1A33	110271	5873	LD DE,625
1A36	CD1AEE	5874	CALL WRITE_L11
		5875	
1A39	1102B1	5876	LD DE,689
1A3C	CD1AEE	5877	CALL WRITE_L11
		5878	
1A3F	11022F	5879	LD DE,559
1A42	CD1AD7	5880	CALL WRITE_L4
		5881	
1A45	11026F	5882	LD DE,623
1A48	CD1ADC	5883	CALL WRITE_L5
		5884	
1A4B	1102AF	5885	LD DE,687
1A4E	CD1AE1	5886	CALL WRITE_L6
		5887	
1A51	1101FB	5888	LD DE,507
1A54	CD1AFB	5889	CALL WRITE_L12
		5890	
1A57	11023B	5891	LD DE,571
1A5A	CD1AFB	5892	CALL WRITE_L12
		5893	
1A5D	11027B	5894	LD DE,635
1A60	CD1AFB	5895	CALL WRITE_L12
		5896	
1A63	11028B	5897	LD DE,699
1A66	CD1AFB	5898	CALL WRITE_L12
		5899	
		5900	***** WRITE OUT COLOR_NAME_TABLE *****
		5901	
1A69	2A73FA	5902	LD HL,(COLORTABLE)
1A6C	110020	5903	LD DE,32
1A6F	3EF4	5904	LD A,OF4H
1A71	CD1FA7	5905	CALL FILL VRAM

```

LOCATION OBJECT CODE LINE SOURCE LINE
5907 ***** ENABLE DISPLAY *****
5908
5909 * ENABLE DISPLAY
5910 LD B,1
5911 LD C,11000000B
5912 CALL WRITE_REGISTER
5913 RET
5914
5915 *****
5916 * DATA TABLES
5917 *
5918 *
5919 *****
5920
5921 ***** PATTERN NAME TABLE *****
5922 LINE_1 DEFB "TO SELECT GAME OPTION,"
5923 LINE_2 DEFB "PRESS BUTTON ON KEYPAD."
5924 LINE_3 DEFB "1 = SKILL 1/ONE PLAYER"
5925 LINE_4 DEFB "2"
5926 LINE_5 DEFB "3"
5927 LINE_6 DEFB "4"
5928 LINE_7 DEFB "5"
5929 LINE_8 DEFB "6"
5930 LINE_9 DEFB "7"
5931 LINE_10 DEFB "8"
5932 LINE_11 DEFB "1A0"
5933 LINE_12 DEFB "S"
5934
5935 *****
5936 * LOCAL SUBROUTINES
5937 *
5938 *
5939 *****
5940
5941 WRITE_L3 LD HL,LINE_3
5942 LD LY,22
5943 LD A,2
5944 CALL PUT_VRAM
5945 RET
5946
5947 WRITE_L4 LD HL,LINE_4
5948 JR WRITE_CHAR
5949
5950 WRITE_L5 LD HL,LINE_5
5951 JR WRITE_CHAR

```

LOCATION OBJECT CODE LINE SOURCE LINE

1AE1 211AC1	5952		
1AE4 FD210001	5953	WRITE_L6	LD HL,LINE_6
1AE8 3E02	5954	WRITE_CHAR	LD IY,1
1AEA CD1FBE	5955		LD A,2
1AED C9	5956		CALL PUT_VRAM
	5957		RET
	5958		
1AEE 211AC6	5959	WRITE_L11	LD HL,LINE_11
1AF1 FD210003	5960		LD IY,3
1AF5 3E02	5961		LD A,2
1AF7 CD1FBE	5962		CALL PUT_VRAM
1AFA C9	5963		RET
	5964		
1AFB 211AC9	5965	WRITE_L12	LD HL,LINE_12
1AFE FD210001	5966		LD IY,1
1B02 3E02	5967		LD A,2
1B04 CD1FBE	5968		CALL PUT_VRAM
1B07 C9	5969		RET
	5970		
	5971	PROG	