

```
10 REM Assembler Demo Program
20 REM *****
30 '
40 DEFINT a-z : REM Use integer variables throughout.
50 start=30000 : REM Address to assemble machine-code.
60 MEMORY start-1 : REM Reserve space for machine-code.
70 LOAD"asm.bin",39500 : REM LOAD assembler into high memory.
80 CALL 39500 : REM Set up RSX commands.
90 REM Initialize register constants.
100 B=0 : C=1 : D=2 : E=3 : H=4 : L=5 : M=6 : A=7
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110 X=384 : Y=640 : PSW=7 : SP=6
120 loop=0 : REM Initialize label used in assembly listing.
130 setmode=&BC0E : scrnmode=1 : REM Define some constants.
140 '
150 REM Demonstration routine to display ASCII character set.
160 REM -----
170 '
180 FOR pass=1 TO 2
190   PRINT"PASS";pass
200   IF pass=1 THEN !DISPLAY,0 ELSE !DISPLAY,1
210 '
220   !ORG,start
230   !MVI,a,scrnmode           'Set the
240   !CALL,setmode            'screen mode.
250   !MVI,a,ASC(" ")         'Initialize 1st character
260   !MVI,b,128-ASC(" ")     'and character count.
270 '
280 !LABEL,@loop
290   !CALL,&BB5A              'Display character
300   !INR,a                  'and move to next one.
310   !DJNZ,loop              'Continue until all done.
320   !RET                    'Return to BASIC.
330   !END
340 '
350 NEXT pass
360 PRINT"Type CALL";start;"to run machine code." : PRINT
370 END

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10 REM Amstrad in-line assembler
20 REM (C) 1987 Stephen Devine
30 '
40 DEFINT a-z
50 start=&9A4C 'Load address for RSX (39500 decimal)
60 MEMORY start-1 'Reserve space for RSX
70 '
80 PRINT : PRINT "Running..."
90 address=start
100 FOR dataline=1000 TO 2310 STEP 10
110 sum=0
120 FOR byte=1 TO 16
130 READ a$ : num=VAL("&" + a$)
140 POKE address,num : address=address+1
150 sum=sum+num
160 NEXT byte
170 READ checksum
180 IF sum()checksum THEN PRINT "Checksum Error in line";dataline : a
bort=-1
190 NEXT dataline
200 IF abort THEN PRINT "Please correct offending line(s) and re-RUN t
he program." : END
210 '
220 address=address-5
230 FOR command=1 TO 161
240 READ word$ : word%=UPPER$(word%)
250 FOR letter=1 TO LEN(word$)-1
260 POKE address,ASC(MID$(word$,letter))
270 address=address+1
280 NEXT letter
290 POKE address,ASC(RIGHT$(word$,1))+128
300 address=address+1
310 NEXT command
320 POKE address,0 : address=address+1
330 '
340 PRINT"Machine code loaded ok."
350 CALL start
360 PRINT : PRINT "Saving RSX..."
370 SAVE "asm.bin",b,start,address-start
380 PRINT"Saved ok." : PRINT
390 END
400 '
1000 DATA 01,5A,9A,21,56,9A,CD,D1,BC,C9,00,00,00,00,87,A2,1618
1010 DATA C3,3F,9C,C3,52,9C,C3,6A,9C,C3,5C,9C,C3,5C,9C,C3,2385
1020 DATA 5C,9C,C3,B4,9C,C3,B4,9C,C3,D5,9C,C3,D5,9C,C3,FC,2885
1030 DATA 9C,C3,FC,9C,C3,13,9D,C3,13,9D,C3,37,9D,C3,37,9D,2315
1040 DATA C3,EC,9D,C3,0F,9E,C3,13,9E,C3,17,9E,C3,1B,9E,C3,2279

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1050 DATA 1F, 9E, C3, 23, 9E, C3, 27, 9E, C3, 2B, 9E, C3, 2F, 9E, C3, 33, 2011
1060 DATA 9E, C3, 37, 9E, C3, 3B, 9E, C3, 3F, 9E, C3, 43, 9E, C3, 47, 9E, 223B
1070 DATA C3, 4B, 9E, C3, 4F, 9E, C3, 53, 9E, C3, 57, 9E, C3, 5B, 9E, C3, 2375
1080 DATA 5F, 9E, C3, 63, 9E, C3, 67, 9E, C3, 6B, 9E, C3, 6F, 9E, C3, 73, 2395
1090 DATA 9E, C3, 77, 9E, C3, 7B, 9E, C3, 7F, 9E, C3, 83, 9E, C3, 87, 9E, 255B
1100 DATA C3, 8B, 9E, C3, 8F, 9E, C3, 93, 9E, C3, 97, 9E, C3, 9B, 9E, C3, 2695
1110 DATA 9F, 9E, C3, A3, 9E, C3, A7, 9E, C3, AB, 9E, C3, AF, 9E, C3, B3, 2779
1120 DATA 9E, C3, B7, 9E, C3, BB, 9E, C3, BF, 9E, C3, C3, 9E, C3, C7, 9E, 287B
1130 DATA C3, CB, 9E, C3, CF, 9E, C3, D3, 9E, C3, D7, 9E, C3, DB, 9E, C3, 3015
1140 DATA DF, 9E, C3, E3, 9E, C3, E7, 9E, C3, EB, 9E, C3, EF, 9E, C3, F3, 3163
1150 DATA 9E, C3, F7, 9E, C3, FB, 9E, C3, FF, 9E, C3, 03, 9F, C3, 07, 9F, 268B
1160 DATA C3, 0B, 9F, C3, 0F, 9F, C3, 13, 9F, C3, 17, 9F, C3, 1B, 9F, C3, 2060
1170 DATA 1F, 9F, C3, 23, 9F, C3, 27, 9F, C3, 2B, 9F, C3, 2F, 9F, C3, 33, 2016
1180 DATA 9F, C3, 37, 9F, C3, 3B, 9F, C3, 3F, 9F, C3, 43, 9F, C3, 47, 9F, 2244
1190 DATA C3, 4B, 9F, C3, 4F, 9F, C3, 53, 9F, C3, 57, 9F, C3, 5B, 9F, C3, 2557
1200 DATA A9, 9F, C3, AD, 9F, C3, B1, 9F, C3, DE, 9F, C3, E5, 9F, C3, EC, 2976
1210 DATA 9F, C3, F0, 9F, C3, F4, 9F, C3, 2A, A0, C3, 40, A0, C3, 44, A0, 2590
1220 DATA C3, 48, A0, C3, 4C, A0, C3, 50, A0, C3, 54, A0, C3, 58, A0, C3, 2370
1230 DATA 5C, A0, C3, 60, A0, C3, 64, A0, C3, 68, A0, C3, 6C, A0, C3, 70, 2387
1240 DATA A0, C3, 74, A0, C3, 78, A0, C3, 7C, A0, C3, 80, A0, C3, 84, A0, 2555
1250 DATA C3, 88, A0, C3, 8C, A0, C3, 90, A0, C3, 94, A0, C3, 98, A0, C3, 2690
1260 DATA 9C, A0, C3, F6, A0, C3, 2B, A1, C3, 2F, A1, C3, 33, A1, C3, 37, 2373
1270 DATA A1, C3, 3B, A1, C3, 48, A1, C3, 53, A1, C3, 64, A1, C3, 6D, A1, 236E
1280 DATA C3, 7F, A1, C3, 86, A1, C3, 8A, A1, C3, 90, A1, C3, 94, A1, C3, 2730
1290 DATA BB, A1, C3, BC, A1, C3, C0, A1, C3, C4, A1, C3, C9, A1, C3, CE, 2947
1300 DATA A1, C3, D2, A1, C3, D6, A1, C3, DA, A1, C3, DE, A1, C3, E3, A1, 3032
1310 DATA C3, E8, A1, DD, 6E, 00, DD, 66, 01, 22, 81, A2, 22, 85, A2, 3A, 1955
1320 DATA 7F, A2, B7, C4, A1, 9D, DD, 6E, 00, DD, 66, 01, 22, 83, A2, C9, 2169
1330 DATA ED, 5B, 83, A2, DD, 6E, 00, DD, 66, 01, 73, 23, 72, C9, ED, 5B, 2069
1340 DATA 85, A2, B7, C4, 60, 9C, 3A, 7F, A2, B7, C8, AF, 32, 7F, A2, 21, 2203
1350 DATA C7, 9D, CD, AB, 9D, 2A, 81, A2, E5, CD, 80, 9D, 21, D3, 9D, CD, 2544
1360 DATA AB, 9D, 2A, 85, A2, E5, CD, 80, 9D, 21, DD, 9D, CD, AB, 9D, E1, 2547
1370 DATA D1, B7, ED, 52, CD, 80, 9D, 21, E7, 9D, CD, AB, 9D, C9, 47, 18, 2448
1380 DATA 04, DD, 23, DD, 23, 10, FA, C9, B7, C8, CD, AA, 9C, 2A, 85, A2, 2234
1390 DATA ED, 5B, 83, A2, 47, DD, 7E, 00, 77, 13, 23, DD, 2B, DD, 2B, 10, 1756
1400 DATA F4, 22, 85, A2, ED, 53, 83, A2, C9, B7, C8, CD, AA, 9C, 2A, 85, 2476
1410 DATA A2, ED, 5B, 83, A2, 47, DD, 7E, 00, 77, 23, DD, 7E, 01, 77, 23, 1857
1420 DATA 13, 13, DD, 2B, DD, 2B, 10, EE, 22, 85, A2, ED, 53, 83, A2, C9, 1963
1430 DATA B7, C8, DD, 5E, 00, DD, 56, 01, 2A, 83, A2, 19, 22, 83, A2, 2A, 1735
1440 DATA 85, A2, 19, 22, 85, A2, C9, B7, C8, DD, 6E, 00, DD, 66, 01, 7E, 2014
1450 DATA B7, C8, 23, 5E, 23, 56, 4F, 06, 00, 2A, 83, A2, 09, 22, 83, A2, 1389
1460 DATA 2A, 85, A2, EB, ED, B0, ED, 53, 85, A2, C9, B7, C8, DD, 6E, 00, 2515
1470 DATA DD, 66, 01, 7E, B7, C8, 23, 5E, 23, 56, 4F, 06, 00, 2A, 83, A2, 1503
1480 DATA 09, 22, 83, A2, 2A, 85, A2, EB, ED, B0, ED, 53, 85, A2, EB, 2B, 2214
1490 DATA CB, FE, C9, F5, 1F, 1F, 1F, 1F, E6, 0F, FE, 0A, 3B, 02, C6, 07, 1799
1500 DATA C6, 30, CD, 5A, BB, F1, E6, 0F, FE, 0A, 3B, 02, C6, 07, C6, 30, 1987
1510 DATA CD, 5A, BB, C9, 7C, CD, 5F, 9D, 7D, CD, 5F, 9D, C9, 3E, 08, CD, 2322
1520 DATA 5A, BB, 3E, 08, CD, 5A, BB, 3E, 08, CD, 5A, BB, 3E, 08, CD, 5A, 1746
1530 DATA BB, CD, 80, 9D, C9, 2A, 85, A2, CD, 89, 9D, C9, 7E, B7, C8, CD, 2629
1540 DATA 5A, BB, 23, 18, F7, 0D, 0A, 41, 73, 73, 65, 6D, 62, 6C, 69, 6E, 1532
1550 DATA 67, 20, 61, 74, 3A, 26, 20, 20, 20, 20, 00, 0D, 0A, 0D, 0A, 53, 701
1560 DATA 74, 61, 72, 74, 3A, 26, 00, 0D, 0A, 20, 20, 45, 6E, 64, 3A, 26, 1001
1570 DATA 00, 0D, 0A, 20, 53, 69, 7A, 65, 3A, 26, 00, 0D, 0A, 0D, 0A, 00, 608
1580 DATA 21, 7F, A2, B7, 2B, 11, DD, 7E, 00, DD, B6, 01, 20, 09, 36, 00, 140B
1590 DATA 21, E9, 9D, CD, AB, 9D, C9, 36, 01, 21, B1, 9D, CD, AB, 9D, CD, 2311
1600 DATA A1, 9D, C9, CD, 16, A2, 3F, CD, 16, A2, 2F, CD, 16, A2, 27, CD, 2040
1610 DATA 16, A2, F3, CD, 16, A2, FB, CD, 16, A2, 0B, CD, 16, A2, EB, CD, 2293
1620 DATA 16, A2, E3, CD, 16, A2, D9, CD, 16, A2, 76, CD, 16, A2, E9, CD, 2351
1630 DATA 16, A2, F9, CD, 16, A2, 00, CD, 16, A2, 37, CD, 16, A2, C9, CD, 2061
1640 DATA 16, A2, 17, CD, 16, A2, 07, CD, 16, A2, 1F, CD, 16, A2, 0F, CD, 1632
1650 DATA 16, A2, C0, CD, 16, A2, C8, CD, 16, A2, D0, CD, 16, A2, D8, CD, 2372
1660 DATA 16, A2, E0, CD, 16, A2, EB, CD, 16, A2, F0, CD, 16, A2, FB, CD, 2500
1670 DATA 3D, A2, E3, CD, 41, A2, E3, CD, 3D, A2, E9, CD, 41, A2, E9, CD, 2640
1680 DATA 3D, A2, F9, CD, 41, A2, F9, CD, 37, A2, A1, CD, 37, A2, A9, CD, 2532
1690 DATA 37, A2, B1, CD, 37, A2, B9, CD, 37, A2, A2, CD, 37, A2, AA, CD, 2382
1700 DATA 37, A2, B2, CD, 37, A2, BA, CD, 37, A2, 47, CD, 37, A2, 4F, CD, 2202
1710 DATA 37, A2, 57, CD, 37, A2, 5F, CD, 37, A2, A0, CD, 37, A2, A8, CD, 2198
1720 DATA 37, A2, B0, CD, 37, A2, BB, CD, 37, A2, 44, CD, 37, A2, A3, CD, 2279
1730 DATA 37, A2, AB, CD, 37, A2, B3, CD, 37, A2, BB, CD, 37, A2, 45, CD, 2294
1740 DATA 37, A2, 4D, CD, 37, A2, 6F, CD, 37, A2, 67, CD, EC, A1, 80, CD, 2287
1750 DATA EC, A1, 88, CD, EC, A1, A0, CD, EC, A1, B8, CD, EC, A1, B0, CD, 3064
1760 DATA EC, A1, 90, CD, EC, A1, 98, CD, EC, A1, AB, CD, 1A, A2, C6, CD, 2861
1770 DATA 1A, A2, CE, CD, 1A, A2, E6, CD, 1A, A2, FE, CD, 1A, A2, F6, CD, 2508
1780 DATA 1A, A2, D6, CD, 1A, A2, DE, CD, 1A, A2, EE, 0E, 10, 18, 18, 0E, 1740
1790 DATA 00, 18, 14, 0E, 18, 18, 10, 0E, 08, 18, 0C, 0E, 20, 18, 08, 0E, 272
1800 DATA 2B, 18, 04, 0E, 38, 18, 00, DD, CB, 01, 46, 28, 05, CD, 4D, A2, 1146
1810 DATA 18, 09, DD, CB, 01, 4E, 28, 13, CD, 51, A2, CD, 45, A2, DD, 7E, 1826
1820 DATA 00, D6, 80, 57, 3E, 06, 81, 5F, C3, 62, A2, CD, 45, A2, DD, 7E, 1959
1830 DATA 00, 81, C3, 55, A2, DD, 7E, 00, FE, 0B, 30, 03, 87, 87, 87, C6, 1834
1840 DATA C7, C3, 55, A2, DD, 7E, 00, B7, 20, 04, CD, 37, A2, 46, 3D, 20, 1792
1850 DATA 04, CD, 37, A2, 56, CD, 37, A2, 5E, CD, 1A, A2, DB, CD, 1A, A2, 2033
1860 DATA D3, 0E, 05, 18, 02, 0E, 04, DD, CB, 01, 46, 28, 05, CD, 4D, A2, 1258
1870 DATA 18, 09, DD, CB, 01, 4E, 28, 10, CD, 51, A2, 3E, 30, 81, 57, DD, 1587
1880 DATA 7E, 00, D6, 80, 5F, C3, 62, A2, DD, 7E, 00, 87, 87, 87, 81, C3, 2094

1890 DATA 55, A2, CD, 49, A2, 0E, 40, 18, EF, CD, 49, A2, 0E, 41, 18, EB, 1803
 1900 DATA 0E, 40, 18, 06, 0E, 80, 18, 02, 0E, C0, DD, 46, 00, DD, CB, 01, 1198
 1910 DATA 46, 28, 05, CD, 4D, A2, 18, 09, DD, CB, 01, 4E, 28, 12, CD, 51, 1439
 1920 DATA A2, CD, 45, A2, DD, 7E, 00, D6, 80, CD, 55, A2, 06, 06, 18, 03, 1778
 1930 DATA CD, 45, A2, DD, 7E, 02, 87, 87, 87, 81, 80, C3, 55, A2, 0E, 10, 1919
 1940 DATA DD, 6E, 00, DD, 66, 01, ED, 5B, 83, A2, B7, ED, 52, 2B, 2B, 51, 1945
 1950 DATA 5D, C3, 62, A2, 0E, 18, 18, EB, 0E, 20, 18, E4, 0E, 28, 18, E0, 1442
 1960 DATA 0E, 30, 18, DC, 0E, 38, 18, D8, CD, 21, A2, CD, CD, 21, A2, C4, 1817
 1970 DATA CD, 21, A2, CC, CD, 21, A2, D4, CD, 21, A2, DC, CD, 21, A2, E4, 2464
 1980 DATA CD, 21, A2, EC, CD, 21, A2, F4, CD, 21, A2, FC, CD, 21, A2, C3, 2527
 1990 DATA CD, 21, A2, C2, CD, 21, A2, CA, CD, 21, A2, D2, CD, 21, A2, DA, 2424
 2000 DATA CD, 21, A2, E2, CD, 21, A2, EA, CD, 21, A2, F2, CD, 21, A2, FA, 2552
 2010 DATA 0E, 40, DD, CB, 03, 46, 28, 05, CD, 4D, A2, 18, 09, DD, CB, 03, 1524
 2020 DATA 4E, 28, 13, CD, 51, A2, 3E, 30, 81, DD, 86, 00, 57, DD, 7E, 02, 1615
 2030 DATA D6, 80, 5F, C3, 62, A2, DD, CB, 01, 46, 28, 05, CD, 4D, A2, 18, 1900
 2040 DATA 09, DD, CB, 01, 4E, 28, 16, CD, 51, A2, DD, 7E, 02, 87, 87, 87, 1776
 2050 DATA 81, C6, 06, 57, DD, 7E, 00, D6, 80, 5F, C3, 62, A2, DD, 7E, 02, 2008
 2060 DATA 87, 87, 87, 81, DD, 86, 00, C3, 55, A2, DD, CB, 03, 46, 28, 04, 1872
 2070 DATA 16, DD, 18, 08, DD, CB, 03, 4E, 28, 13, 16, FD, 1E, 36, CD, 62, 1501
 2080 DATA A2, DD, 7E, 02, D6, 80, 57, DD, 5E, 00, C3, 62, A2, DD, 7E, 02, 2059
 2090 DATA 87, 87, 87, C6, 06, 57, DD, 5E, 00, C3, 62, A2, CD, 49, A2, 0E, 1920
 2100 DATA 4A, 18, 5F, 0E, 09, 18, 5B, 0E, 0B, 18, 57, 0E, 03, 18, 53, 0E, 605
 2110 DATA C1, DD, 7E, 00, FE, 07, 20, 4A, CD, 16, A2, F1, 0E, C5, DD, 7E, 2095
 2120 DATA 00, FE, 07, 20, 3D, CD, 16, A2, F5, CD, 4D, A2, DD, CB, 01, 46, 1927
 2130 DATA 0E, 09, 3E, 04, 20, 47, 18, 42, CD, 51, A2, DD, CB, 01, 4E, 18, 1257
 2140 DATA EF, DD, 23, DD, 23, 0E, 01, CD, 8E, A1, DD, 56, FE, DD, 5E, FF, 2405
 2150 DATA C3, 62, A2, CD, 49, A2, 0E, 42, 18, 08, 0E, 02, 18, 04, 0E, 0A, 1075
 2160 DATA 18, 00, DD, CB, 01, 46, 28, 05, CD, 4D, A2, 18, 09, DD, CB, 01, 1466
 2170 DATA 4E, 28, 07, CD, 51, A2, DD, 36, 00, 04, DD, 7E, 00, 87, 87, 87, 1604
 2180 DATA 81, C3, 55, A2, CD, 21, A2, 3A, CD, 21, A2, 32, CD, 2E, A2, 4B, 1967
 2190 DATA CD, 2E, A2, 5B, CD, 21, A2, 2A, CD, 4D, A2, 18, F7, CD, 51, A2, 2109
 2200 DATA 18, F2, CD, 2E, A2, 7B, CD, 2E, A2, 43, CD, 2E, A2, 53, CD, 21, 2016
 2210 DATA A2, 22, CD, 4D, A2, 18, F7, CD, 51, A2, 18, F2, CD, 2E, A2, 73, 2153
 2220 DATA DD, CB, 01, 46, 28, 05, CD, 4D, A2, 18, 09, DD, CB, 01, 4E, 28, 1560
 2230 DATA 11, CD, 51, A2, E1, 3E, 06, 86, 57, DD, 7E, 00, D6, 80, 5F, C3, 1958
 2240 DATA 62, A2, E1, DD, 7E, 00, 86, C3, 55, A2, E1, 7E, 18, 3B, E1, 56, 2153
 2250 DATA DD, 5E, 00, 18, 41, E1, 7E, CD, 55, A2, DD, 56, 00, DD, 5E, 01, 1830
 2260 DATA 18, 34, E1, 5E, 16, ED, CD, 62, A2, 18, EF, 16, ED, E1, 5E, 18, 1984
 2270 DATA 25, 16, DD, 18, F8, 16, FD, 18, F4, 3E, CB, 18, 0C, 3E, ED, 18, 1719
 2280 DATA 08, 3E, DD, 18, 04, 3E, FD, 18, 00, 2A, 85, A2, 77, 23, 22, 85, 1316
 2290 DATA A2, 2A, 83, A2, 18, 10, 2A, 85, A2, 72, 23, 73, 23, 22, 85, A2, 1502
 2300 DATA 2A, 83, A2, 18, 00, 23, 23, 22, 83, A2, 3A, 7F, A2, B7, CB, CD, 1691
 2310 DATA A1, 9D, C9, 00, 00, 00, 00, 00, 00, 00, 00, 00, 4F, 52, C7, 50, 48, 1031
 2320 '
 3000 DATA "ORG", "PHASE", "END", "LABEL", "DEFL", "DL", "DEFB", "DB"
 3010 DATA "DEFW", "DW", "DEFS", "DS", "DEFM", "DM", "DEFC", "DC", "DISPLAY"
 3020 DATA "CMC", "CMA", "DAA", "DI", "EI", "XPSW", "XCHG", "XTHL"
 3030 DATA "EXX", "HLT", "PCHL", "SPLH", "NOP", "STC", "RET"
 3040 DATA "RAL", "RLCA", "RAR", "RRCA"
 3050 DATA "RNZ", "RZ", "RNC", "RC", "RPO", "RPE", "RP", "RM"
 3060 DATA "XTIX", "XTIY", "PCIX", "PCIY", "SPIX", "SPIY"
 3070 DATA "CPIC", "CPDC", "CPIR", "CPDR", "INI", "IND", "INIR", "INDR"
 3080 DATA "LDIA", "LDRA", "LDAI", "LDAR", "LDI", "LDD", "LDIR", "LDDR"
 3090 DATA "NEB", "OUTI", "OUTD", "OTIR", "OTDR", "RETN", "RETI"
 3100 DATA "RLD", "RRD"
 3110 DATA "ADD", "ADC", "ANA", "CMP", "ORA", "SUB", "SBB", "XRA"
 3120 DATA "ADI", "ACI", "ANI", "CPI", "ORI", "SUI", "SBI", "XRI"
 3130 DATA "RL", "RLC", "RR", "RRC", "SLA", "SRA", "SRL"
 3140 DATA "RST", "IM", "IN", "OUT", "DCR", "INR", "INBC", "OTBC"
 3150 DATA "BIT", "RES", "SET"
 3160 DATA "DJNZ", "JR", "JRNZ", "JRZ", "JRNC", "JRC"
 3170 DATA "CALL", "CNZ", "CZ", "CNC", "CC", "CPO", "CPE", "CP", "CM"
 3180 DATA "JMP", "JNZ", "JZ", "JNC", "JC", "JPO", "JPE", "JP", "JM"
 3190 DATA "MOV", "MVI"
 3200 DATA "DADC", "DAD", "DCX", "INX"
 3210 DATA "POP", "PUSH"
 3220 DATA "DADX", "DADY"
 3230 DATA "LXI", "DSBB", "STAX", "LDAX", "LDA", "STA"
 3240 DATA "LBCD", "LDED", "LHLD", "LIXD", "LIYD", "LSPD"
 3250 DATA "SBCD", "SDED", "SHLD", "SIXD", "SIYD", "SSPD"

Z80

8080

ADC A, r

ADC r

ADC A, n

ACI n

ADC HL, dd

DADC dd

ADD A, r

ADD r

Z80

8080

LD A, (nn)

LDA nn

LD r1, r2

MOV r1, r2

LD r, n

MVI r, n

LD A, I

LDAI

ADD	A, n	ADI	n	LD	A, R	LDAR
ADD	HL, dd	DAD	dd	LD	I, A	LDIA
ADD	IX, dd	DADX	dd	LD	R, A	LDRA
ADD	IY, dd	DADY	dd	LD	SP, HL	SPHL
AND	r	ANA	r	LD	SP, IX	SPIX
AND	n	ANI	n	LD	SP, IY	SPIY
BIT	n, r	BIT	n, r	LD	dd, nn	LXI dd, nn
CALL	nn	CALL	nn	LD	BC, (nn)	LBCD nn
CALL	C, nn	CC	nn	LD	DE, (nn)	LDED nn
CALL	M, nn	CM	nn	LD	HL, (nn)	LHLD nn
CALL	NC, nn	CNC	nn	LD	IX, (nn)	LIXD nn
CALL	NZ, nn	CNZ	nn	LD	IY, (nn)	LIYD nn
CALL	P, nn	CP	nn	LD	SP, (nn)	LSPD nn
CALL	PE, nn	CPE	nn	LD	(nn), BC	SBCD nn
CALL	PO, nn	CPD	nn	LD	(nn), DE	SDED nn
CALL	Z, nn	CZ	nn	LD	(nn), HL	SHLD nn
CCF		CMC		LD	(nn), IX	SIXD nn
CP	r	CMP	r	LD	(nn), IY	SIYD nn
CP	n	CPI	n	LD	(nn), SP	SSPD nn
CPD		CPDC		LDD		LDD
CPDR		CPDR		LDDR		LDDR
CPI		CPIC		LDI		LDI
CPIR		CPIR		LDIR		LDIR
CPL		CMA		NEG		NEG
DAA		DAA		NOP		NOP
DEC	r	DCR	r	OR	r	ORA r
DEC	dd	DCX	dd	OR	n	ORI n
DI		DI		OTDR		OTDR
DJNZ	n	DJNZ	n	OTIR		OTIR
EI		EI		OUTD		OUTD
EX	(SP), HL	XTHL		OUTI		OUTI
EX	(SP), IX	XTIX		OUT	(C), r	OTBC r
EX	(SP), IY	XTIY		OUT	(n), A	OUT n
EX	AF, AF'	XPSW		POP	dd	POP dd
EX	DE, HL	XCHG		PUSH	dd	PUSH dd
EXX		EXX		RES	n, r	RES n, r
HALT		HLT		RET		RET
IM	0	IM	0	RET	C	RC
IM	1	IM	1	RET	M	RM
IM	2	IM	2	RET	NC	RNC
IN	A, (n)	IN	n	RET	NZ	RNZ
IN	r, (C)	INBC	r	RET	P	RP

INC r	INR r	RET PE	RPE
INC dd	INX dd	RET PD	RPD
IND	IND	RET Z	RZ
INDR	INDR	RETI	RETI
INI	INI	RETN	RETN
INIR	INIR	RL r	RL r
JP nn	JMP nn	RLA	RAL
JP (HL)	PCHL	RLC r	RLC r
JP (IX)	PCIX	RLCA	RLCA
JP (IY)	PCIY	RLD	RLD
JP C, nn	JC nn	RR r	RR r
JP M, nn	JM nn	RRA	RAR
JP NC, nn	JNC nn	RRC r	RRC r
JP NZ, nn	JNZ nn)	RRCA	RRCA
JP P, nn	JP nn	RRD	RRD
JP PE, nn	JPE nn	RST n	RST n
JP PD, nn	JPD nn	SBC A, r	SBB r
JP Z, nn	JZ nn	SBC A, n	SBI n
JR n	JR n	SBC HL, dd	DSBB dd
JR C, n	JRC n	SCF	STC
JR NC, n	JRNC n	SET n, r	SET n, r
JR NZ, n	JRNZ n	SLA r	SLA r
JR Z, n	JRZ n	SRA r	SRA r
LD (BC), A	STAX B	SRL r	SRL r
LD (DE), A	STAX D	SUB r	SUB r
LD (nn), A	STA nn	SUB n	SUI n
LD A, (BC)	LDAX B	XOR r	XRA r
LD A, (DE)	LDAX D	XOR n	XRI n

Z80

r: A B C D E H L (HL) (IX+n) (IY+n)
dd: AF BC DE HL IX IY SP

8080

r: A B C D E H L M X+n Y+n
dd: PSW B D H X Y SP