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0 DIM CL$(256)
100 DEFSNGA-Z
200 SD$(0)="B";SD$(1)="C";SD$(2)="D";SD$(3)="E";SD$(4)="H" +
    ";SD$(5)="L"
300 SD$(6)="MEM";SD$(7)="AC"
400 RP$(0)="BC";RP$(1)="DE";RP$(2)="HL";RP$(3)="SP"
500 RESTORE
600 READ A$,B$,C$,D$,E$
700 IF A$="END" THEN 800
705 IF VAL(C$)=0 THEN CL$(VAL("&0"+E$))=A$:GOTO 600
710 ON VAL(C$) GOTO 715,735,740,745,750,755
715 VL=VAL("&0"+E$)
720 FOR A=0 TO 7
725 CL$(VL OR A*8)=A$+" "+CHR$(48+A):NEXT A
730 GOTO 600
735 VL=VAL("&0"+E$)
737 FOR A=0 TO 7
739 CL$(VL OR A*8)=A$+" "+SD$(A):NEXT A:GOTO 600
740 VL=VAL("&0"+E$)
742 FOR A=0 TO 3
744 CL$(VL OR A*16)=A$+" "+RP$(A):NEXT A:GOTO 600
745 VL=VAL("&0"+E$)
747 FOR A=0 TO 7:FOR B=0 TO 7
749 CL$(VL OR A*8 OR B)=A$+" "+SD$(A)+" "+SD$(B):NEXT B,A: +
    GOTO 600
750 VL=VAL("&0"+E$)
752 CL$(VL)=A$+" BC"
754 CL$(VL OR 16)=A$+" DE":GOTO 600
755 FOR A=0 TO 7:CL$(VAL("&0"+E$) OR A)=A$+" "+SD$(A):NEX +
    TA:GOTO 600
800 FOR A=0 TO 256:PRINT A,CL$(A):NEXT A
900 INPUT "Input starting number";ST
1000 FOR ST=ST TO 65535!
1100 LC=PEEK(ST)
1200 PRINT ST" "OCT$(ST)" "HEX$(ST)"/ "LC" " +
    OCT$(LC)" "HEX$(LC)" "CL$(LC)
1300 NEXT ST
1400 END
1500 'DATA MNEMONIC,BYTES,REGTYPE,MULTYPE,MASK OCTAL
1600 'MNEMONIC IS AN ASCII STRING FROM 1-6 CHARS LONG
1700 'BYTES IS THE NUMBER OF BYTES
1800 'REGTYPE SPECIFIES THEN REGISTER POSITIONING
1900 ' AND TYPE OF POSITIONING
2000 'MULTYPE SPECIFIES THE SECOND OR THIRD BYTE COMPOSITION
2100 'MASK OCTAL IS THE ACTUAL INSTRUCTION
2200 '
2300 'REGTYPE IS DEFINED AS FOLLOWS
2400 ' 1 = EXP TYPE, OCTAL DIGIT, BINARY=NN EXP NNN
2500 ' 2 = DESINATION REGISTER TYPE BINARY=NN DDD NNN
2600 ' 3 = REGISTER PART TYPE BINARY=NN RPN NNN
2700 ' 4 = SOURCE/DEST TYPE BINARY=NN DDD SSS
2800 ' 5 = X TYPE DESINATION BINARY=NN NXN NNN
2900 ' 6 = SOURCE TYPE BINARY=NN NNN SSS

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3000 'MULTYPE IS DEFINED AS FOLLOWS
3100 ' 1 = IMMEDIATE DATA
3200 ' 2 = MEMORY LOCATION
3300 '
3400 'I/O INSTRUCTIONS
3500 DATA IN,2,0,1,333
3600 DATA OUT,2,0,1,323
3700 'INTERUPT INSTRUCTIONS
3800 DATA EI,1,0,0,373
3900 DATA DI,1,0,0,363
4000 DATA HLT,1,0,0,166
4100 DATA RST,1,1,0,307
4200 'CARRY BIT INSTRUCTIONS
4300 DATA CMC,1,0,0,077
4400 DATA STC,1,0,0,067
4500 'NO OPERATION INSTRUCTION
4600 DATA NOP,1,0,0,000
4700 'SINGLE REGISTER INSTUCTIONS
4800 DATA INR,1,2,0,004
4900 DATA DCR,1,2,0,005
5000 DATA CMA,1,0,0,057
5100 DATA DAA,1,0,0,047
5200 'REGISTER PAIR INSTRUCTIONS
5300 DATA PUSH,1,3,0,305
5400 DATA POP,1,3,0,301
5500 DATA DAD,1,3,0,011
5600 DATA INX,1,3,0,003
5700 DATA DCX,1,3,0,013
5800 DATA XCHG,1,0,0,353
5900 DATA XTHL,1,0,0,343
6000 DATA SPHL,1,0,0,371
6100 'ROTATE ACCUMULATOR INSTRUCTIONS
6200 DATA RLC,1,0,0,007
6300 DATA RRC,1,0,0,017
6400 DATA RAL,1,0,0,027
6500 DATA RAR,1,0,0,037
6600 'DATA TRANSFER INSTUCTIONS
6700 DATA MOV,1,4,0,100
6800 DATA STAX,1,5,0,002
6900 DATA LDAX,1,5,0,012
7000 'REG/MEM TO ACC TRANSFERS
7100 DATA ADD,1,6,0,200
7200 DATA ADC,1,6,0,210
7300 DATA SUB,1,6,0,220
7400 DATA SBB,1,6,0,230
7500 DATA ANA,1,6,0,240
7600 DATA XRA,1,6,0,250
7700 DATA ORA,1,6,0,260
7800 DATA CMP,1,6,0,270
7900 'DIRECT ADDRESS INSTUCTIONS
8000 DATA STA,3,0,2,062
8100 DATA LDA,3,0,2,072
8200 DATA SHLD,3,0,2,042
8300 DATA LHLD,3,0,2,052

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8400 'IMMEDIATE INSTRUCTIONS
8500 DATA LXI,3,3,2,001
8600 DATA MVI,2,2,1,006
8700 DATA ADI,2,0,1,306
8800 DATA ACI,2,0,1,316
8900 DATA SUI,2,0,1,326
9000 DATA SBI,2,0,1,336
9100 DATA ANI,2,0,1,346
9200 DATA XRI,2,0,1,356
9300 DATA ORI,2,0,1,366
9400 DATA CPI,2,0,1,376
9500 'JUMP INSTRUCTIONS
9600 DATA PCHL,1,0,0,351
9700 DATA JMP,3,0,2,303
9800 DATA JC,3,0,2,332
9900 DATA JNC,3,0,2,322
10000 DATA JZ,3,0,2,312
10100 DATA JNZ,3,0,2,302
10200 DATA JM,3,0,2,372
10300 DATA JP,3,0,2,362
10400 DATA JPE,3,0,2,352
10500 DATA JPO,3,0,2,342
10600 'CALL INSTRUCTIONS
10700 DATA CALL,3,0,2,315
10800 DATA CC,3,0,2,334
10900 DATA CNC,3,0,2,324
11000 DATA CZ,3,0,2,314
11100 DATA CNZ,3,0,2,304
11200 DATA CM,3,0,2,374
11300 DATA CP,3,0,2,364
11400 DATA CPE,3,0,2,354
11500 DATA CPO,3,0,2,344
11600 'RETURN INSTRUCTIONS
11700 DATA RET,1,0,0,311
11800 DATA RC,1,0,0,330
11900 DATA RNC,1,0,0,320
12000 DATA RZ,1,0,0,310
12100 DATA RNZ,1,0,0,300
12200 DATA RM,1,0,0,370
12300 DATA RP,1,0,0,360
12400 DATA RPE,1,0,0,350
12500 DATA RPO,1,0,0,340
12600 'DONE
12700 DATA END,0,0,0,000

[illegible][illegible]