

PROBLEM:1
LXI SP,2201H
LXI H,4032H
LXI D,4133H
PUSH H
PUSH D
POP H
POP D
HLT

PROBLEM:2
LXI H,2200H
LXI SP,2299H
MOV A,M
INX H
ADC M
PUSH PSW
HLT

#ORG 2200H
#DB 7A,46

PROBLEM 3:
LXI SP,2099H
LXI H,2090H
LXI B,2095H
MVI C,09H
LOOP:MVI M,00H
 INX H
 DCR C
 JNZ LOOP

LXI H,4087H
LXI D,1242H
LXI B,0237H
PUSH H
PUSH D
PUSH B
HLT
#ORG 2095H
#DB 95H

PROBLEM:4

```
LXI SP, 2103H
LXI B, 0000H
PUSH B
POP PSW
LXI H, 200BH
CALL DELAY
OUT 01H
HLT
```

```
DELAY:PUSH H
PUSH B
LXI B,00FFH
LOOP: DCX B
MOV A,B
ORA C
```

```
JNZ LOOP
POP B
RET
#ORG 200BH
#DB 00H
```