

Codes

P1

```
.MODEL SMALL
.STACK 2D
.DATA

Org 1000H

NUM1 DB 25H, 35H, 45H, 32H, 56H, 98H, 76H, 76H
NUM2 DB 90H, 56H, 43H, 75H, 83H, 10H, 34H, 22H
ANS DB 10 DUP (?)
COUNT DW 8H

.CODE
START:
MOV AX, @DATA
MOV DS, AX
MOV CX, COUNT
MOV SI, 04H
CLC
REPEAT:
MOV AL, NUM1[SI]
ADC AL, NUM2[SI]
MOV ANS[SI], AL
INC SI
LOOP REPEAT
INT 3
END START
```

M2

MODEL SMALL

STACK 20

DATA

Org 1000H

NUM1 DB 89H, 35H, 45H, 32H, 56H, 98H, 76H, 76H

NUM2 DB 32H, 56H, 43H, 75H, 89H, 10H, 34H, 22H

ANS DB 9 DUP (0)?

COUNT DW 8H

CODE

START:

MOV AX, @DATA

MOV DS, AX

MOV CX, COUNT

MOV SI, 04

CLE

REPEAT:

MOV AL, NUM1[SI]

SBB AL, NUM2[SI]

MOV ANS[SI], AL

INC SI

LOOP REPEAT

INT 3

END START

P3

MODEL SMALL

STACK 20

DATA

ORG 1000H

N1 DB 35H

N2 DB 82H

Un_Sign_PROD DW?

Sign_PROD DW?

CODE

START:

MOV AX, @DATA

MOV DS, AX

MOV AL, N1

MUL N2

MOV Un_Sign_PROD, AX

MOV AL, N1

IMUL N2

MOV Sign_PROD, AX

INT 3

END START

EXERCISE

Q2

DATA SEGMENT.

ORG 1000H.

N DW 5.

RES DW ?

DATA ENDS

CODE SEGMENT.

ASSUME CS: CODE, DS: DATA

START: MOV AX, DATA

MOV DX, AX

MOV AX, N

MOV CX, AX

DEC CX.

BACK: MUL CX

DEC CX

JNZ BACK.

MOV RES, AX

INT 3.

CODE ENDS

END START.

