```
.MODEL SMALL
.STACK 100H
.DATA
    MSGA DB 'Number of Inputs (max 5 digits): $'
    MSGB DB 'Enter Number: $'
    MSGC DB 'Maximum: $'
    MSGD DB 'Minimum: $'
    MAX DW 0
    MIN DW 9999
    TEMP DW ?
    COUNT DW ?
.CODE
MAIN PROC
    MOV AX, @DATA
    MOV DS, AX
    LEA DX, MSGA
                             ;Print 'Number of Inputs:'
    MOV AH, 9
    INT 21H
GET INPUT:
    MOV AH, 1
    MOV BX, 0
    INT 21H
    CMP AL, ODH
    JE END INPUT
                             ; If Enter
    INER LOOP 1:
        MOV AH, 0
                              ;Use full 16 bits of AX
        SUB AX, 48
        MOV TEMP, AX
        MOV AX, 10
                              ; AX = AX*BX
        MUL BX
        MOV BX,AX
        ADD BX, TEMP
    MOV AH, 1
                              ; Input new digit
    INT 21H
    CMP AL, ODH
    JNE INER LOOP 1
                              ; If Enter
    END INPUT:
        MOV COUNT, BX
                             ;Print 'Enter Number'
    LEA DX, MSGB
    MOV AH, 9
    INT 21H
    MOV AH, 2
    MOV DL, ODH
    INT 21H
                              ; New line
    MOV DL, OAH
    INT 21H
    MOV DX, 0
    MOV TEMP, 0
OUT LOOP:
    MOV AH, 1
    MOV BX, 0
    INT 21H
    CMP AL, ODH
```

```
JE LAST_INPUT
                              ; If Enter
    INER LOOP 2:
        MOV AH, 0
                              ;Use full 16 bits of AX
        SUB AX, 48
        MOV TEMP, AX
        MOV AX, 10
        MUL BX
                              ; AX = AX*BX
        MOV BX,AX
        ADD BX, TEMP
    MOV AH, 1
                              ; Input new digit
    INT 21H
    CMP AL, ODH
    JNE INER_LOOP 2
                             ; If Enter
    LAST INPUT:
        CMP BX, MAX
        JBE CHECK MIN
        MOV MAX, BX
        CHECK MIN:
            CMP BX, MIN
            JAE LINK UP
            MOV MIN, BX
        LINK UP:
            DEC COUNT
            CMP COUNT, 0
            JNE OUT LOOP
PRINT:
    LEA DX, MSGC
                              ;Print 'Maximum:'
    MOV AH, 9
    INT 21H
    MOV CX, 0
                              ;Or XOR CX,CX
    MOV AX, MAX
    MOV BX, 10
STOR MAX:
    MOV DX, 0
    DIV BX
                              ; AX = AX/BX
    PUSH DX
                              ;Reminder(DX) in stack
    INC CX
    CMP AX, 0
    JNE STOR MAX
PRINT MAX:
    MOV AH, 2
    POP DX
    ADD DL, 48
                              ; Pop stack by DX and DX = DL
    INT 21H
    DEC CX
    CMP CX, 0
    JNZ PRINT MAX
    MOV DL, ODH
    INT 21H
                             ; New line
    MOV DL, OAH
    INT 21H
NEXT STEP:
    LEA DX, MSGD
                              ;Print 'Minimum:'
```

```
MOV AH, 9
    INT 21H
    MOV CX, 0
                             ;Or XOR CX,CX
    MOV AX, MIN
    MOV BX, 10
STOR_MIN:
    MOV DX, 0
    DIV BX
                             ; AX = AX/BX
    PUSH DX
                             ;Reminder(DX) in stack
    INC CX
    CMP AX, 0
    JNE STOR MIN
PRINT MIN:
    MOV AH, 2
    POP DX
    ADD DL,48
                             ; Pop stack by DX and DX = DL
    INT 21H
    DEC CX
    CMP CX, 0
    JNZ PRINT MIN
END_PROC:
    MOV AH, 4CH
    INT 21H
MAIN ENDP
    END MAIN
```