Experiment 3

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Div/Batch:A/A1 Roll No.07

.MODEL SMALL

.STACK 100H

.DATA

ARRAY DB 10, 25, 15, 40, 5, 30, 50, 20

LEN EQU \$ - ARRAY

MIN DB 0

MAX DB 0

.CODE

MAIN PROC

MOV AX, @DATA

MOV DS, AX

MOV SI, 0

MOV AL, ARRAY[SI]

MOV MIN, AL

MOV MAX, AL

FIND_MIN_MAX:

MOV AL, ARRAY[SI]

CMP AL, MAX

JG UPDATE_MAX

CMP AL, MIN

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JL UPDATE_MIN

JMP NEXT_ELEMENT
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UPDATE_MAX:

MOV MAX, AL

JMP NEXT_ELEMENT

UPDATE_MIN:

MOV MIN, AL

NEXT_ELEMENT:

INC SI

CMP SI, LEN

JL FIND_MIN_MAX

MOV AX, 4C00H

INT 21H

MAIN ENDP

END MAIN

OUTPUT:

