

```
.MODEL SMALL

.STACK 100H

.DATA
    ARRAY DB 10,30,45,20,27,26
    TEMP DB 0

.CODE

MAIN PROC

    MOV AX,@DATA
    MOV DS,AX
    MOV ES,AX
    LEA SI,ARRAY
    LEA DI,TEMP
    XOR AX,AX
    XOR DX,DX
    PUSH AX
    MOV BX,5
    PUSH BX
    CALL MAX
    MOV AX,DX
    CALL OUTDEC
    MOV AH,76
    INT 33
MAIN ENDP


MAX PROC

    PUSH BP
    MOV BP,SP
    MOV BX,[BP+4]
    MOV AX,[BP+6]
    CMP BX,AX
    JG @ELSE
    ;THEN
    PUSH SI
    ADD SI,AX
```

```
        MOV DL,[SI]
        POP SI
        JMP @RETURN

@ELSE:
PUSH AX
MOV CX,BX
SUB CX,AX
SHR CX,1
ADD CX,AX
PUSH CX
CALL MAX
MOV [DI],DL
INC CX
PUSH CX
PUSH BX
CALL MAX
CMP [DI],DL
JNG @RETURN
;ELSE
        MOV DL,[DI]
@RETURN:
        POP BP
        RET 4
MAX ENDP
INCLUDE D:\outdec.asm
END MAIN
```