

Problem statement:

Input 3 numbers print them in descending order.

Code:

<pre>.MODEL SMALL .STACK 100H .DATA MSG DW 10,13,"Enter 3 numbers: \$" NL DW 10,13,"\$" T DB ? D DB ? .CODE MAIN PROC MOV AX,@DATA MOV DS,AX ;PROMT USER TO INPUT LEA DX,MSG MOV AH,9 INT 21H MOV AH,1 INT 21H MOV BL,AL MOV AH,1 INT 21H MOV CL,AL MOV AH,1 INT 21H MOV DH,AL</pre>	<pre>;APPLY BUBBLE SORT TO ;BL,CL,DH CMP BL,CL JG BGC ;ECHG BL,CL;I F BL<CL SWAP MOV T,BL MOV BL,CL MOV CL,T BGC: CMP CL,DH JG CGD ;ECHG CL,DH;I F CL<DH SWAP MOV T,CL MOV CL,DH MOV DH,T CGD: CMP BL,CL JG BGC2 ;ECHG BL,CL;I F BL<CL SWAP MOV T,BL MOV BL,CL MOV CL,T</pre>	<pre>BGC2: MOV D,DH ;STORE VALUE IN DX TO D AS IT WILL BE OVERWRITTEN ;PRINT NEW LINE LEA DX,NL MOV AH,9 INT 21H MOV AH,2 MOV DL,BL INT 21H MOV DL,CL INT 21H MOV DL,D INT 21H EXIT: MOV AH,4CH INT 21H MAIN ENDP END MAIN</pre>
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Output:

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sch emulator screen (80x25 chars)

Enter 3 numbers:735
753
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