

End Sem Exam

OC

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Q-1

function fu(a, b)

if (a == 0)
output 1 = 1;

End

if (a == 0) && (b == 0)
output 2 = 1;

End

Save('output.m', 'output 1', 'output 2');

End

End Sem

DC

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Q.2

ORG 45H; 45H is an location array 1
DB 7, 6, 5, 4, 3, 2, 1, 0

ORG 70H; 70H is an location array 2
DB 7, 1, 2, 3, 4, 5, 6, 2

ORG 0000H; starting the program from
0000H is an location

MOV R3, #07H; storing 07H in R3

L1: MOV DPTR, #45H; ~~st~~
MOV A, R3; A storing value of R3 to A

MOVC A, @A+DPTR

MOV R0, A; storing value of R3 to A

CLR A; clearing A

MOV DPTR, #70H

MOV A, R3; storing value of R3 to A

MOVC @A, @A+DPTR

MOV R1, A; storing ~~A~~ to R1

DEC R3; decrementing R3

MOV A, R3; storing value of R3 to A

MOV A, @A+DPTR

MOV R2, A; storing value of A to R2

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MOV R2, A ; storing value of A to R2

INC R3 ; Increment R3

MOV A, R0 ; storing R0 to A

MOV B, R2 ; storing R2 to B

XRL A, B ; XOR of A and B

ANL A, R0 ; AND of A and R0

MOV PTR, #70H

MOV R4, A ; storing A to R4

MOV A, R3 ; storing R3 to A

MOVC @A+PTR, R4

DJNZ R3, L1 ; decrement and jump if not zero

SJMP EXIT ; short jump

EXIT: END

X