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Name Saurabh Khandagale

Roll-46

Q1 $t = a + b$

$u = c + d$

$v = t + u$

$w = t + v$

Computers order it given : t, u, v, w

∴ order = u - v - t - w

System restriction Number of register is 02 [R0 R1]

Instruction		cost	Register	Address desi sign
mov A, R0	R0 = A	2	R0 contains	t is in R0
ADD B, R0	R0 = A+B	2+1		
mov C, R1	R1 = C	2	R1 Contains	u is R1
ADD D, R1	R1 = C+D	2+1		t is in R0
mov R0, t1	R0 empty	2	R0 Contains V	V is in R0
mov E, R0	R0 = R0+R1	2	R1 Contains u	V is in R1
ADD R0, R1	E + (C+D) = V	1		
mov t, R1	R1 = A+B(t)	2	R0 Contains	V is in R0
ADD R1, R0	R1 = R1+R0	1	R1 Contains	W is in R1
mov R1, w		2	w	
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