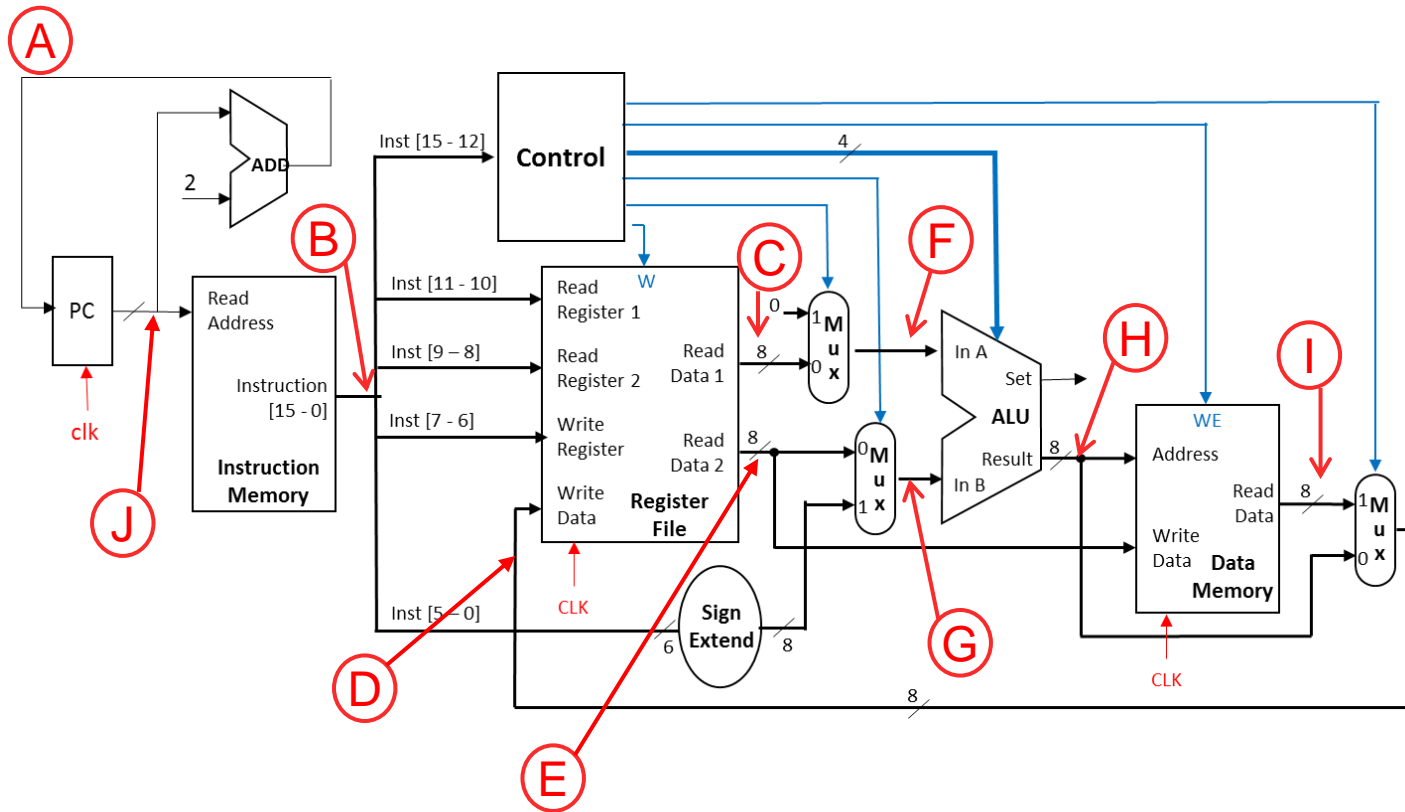# CE 1911

Homework 14

1 - Assume RA, RB, RC, RD contain the values 0x11, 0x22, 0x44, 0x88 respectively. Provide the values for each signal after executing the instruction:
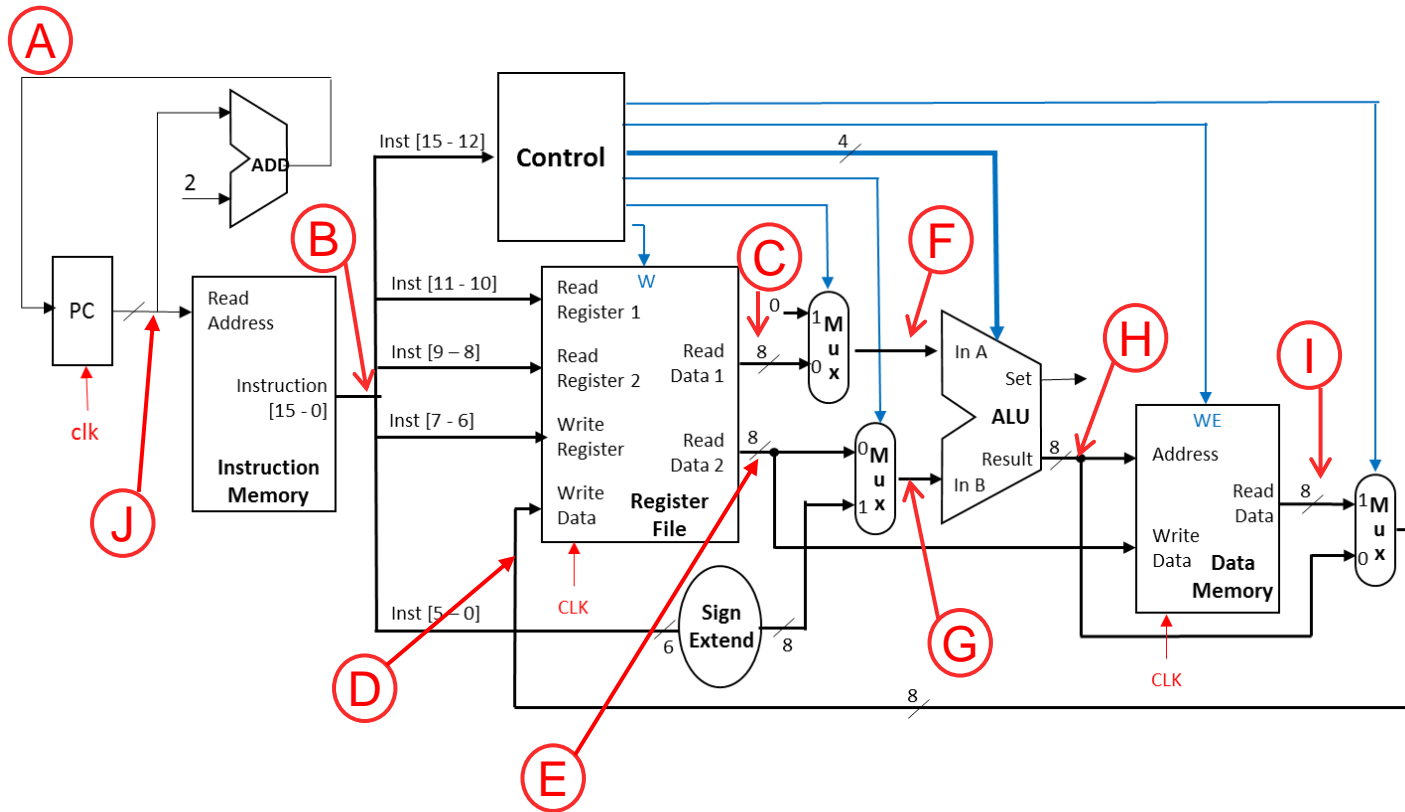
sub RA,RB,RA located in program memory at 0x24   30pts

Node	Value (hex)
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	

2 - Assume RA, RB, RC, RD contain the values 0xAA, 0x35, 0xF2, 0x3D respectively. Provide the values for each signal after executing the instruction:
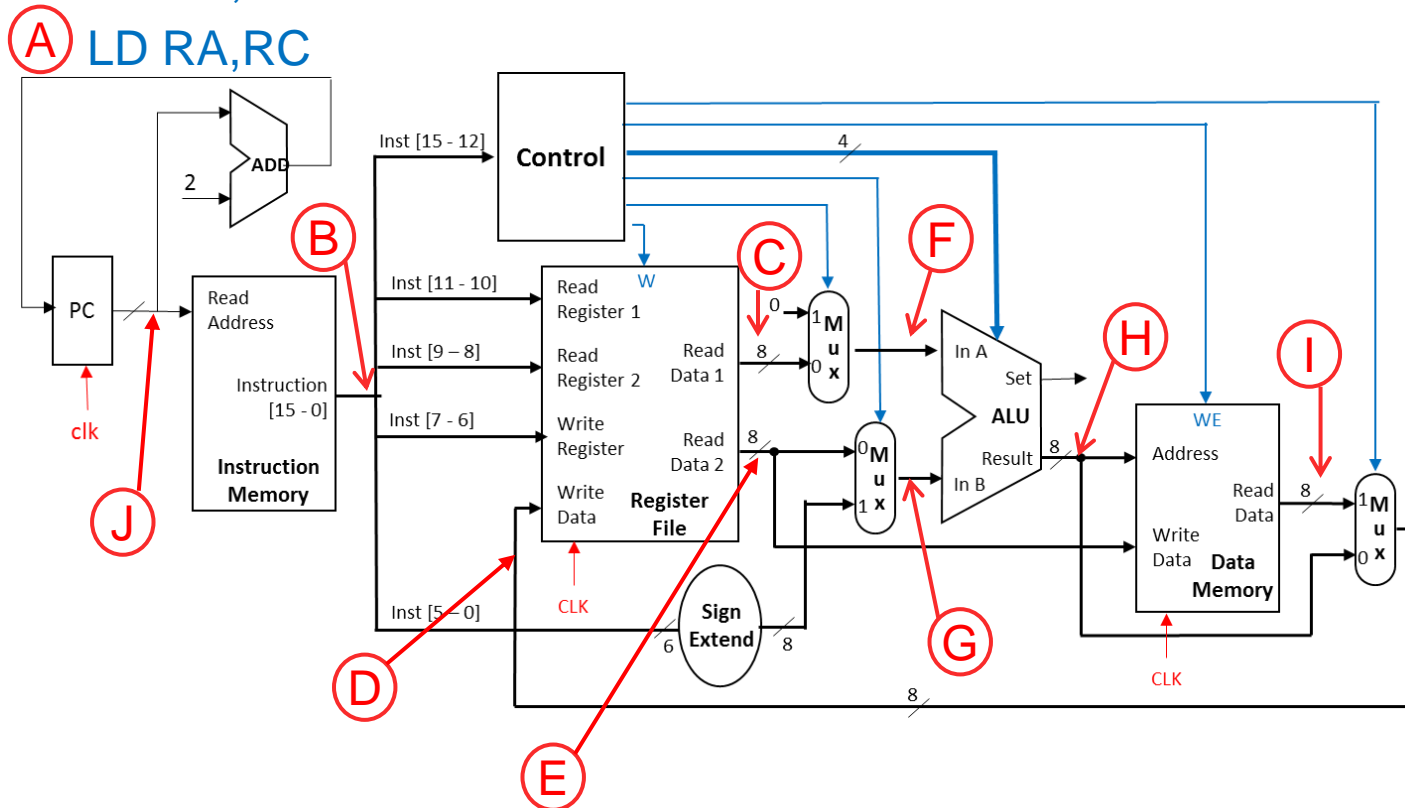and RC,RD,RA located in program memory at 0xAE   30pts

Node	Value (hex)
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	

3 - Assume RA, RB, RC, RD contain the values 0x54, 0xBA, 0x33, 0x1F respectively. Provide the values for each signal after completing execution of the following 4 instructions, the first of which is located in program memory at 0x04

40pts

LDI RA,0x14

SUB RC,RA,RA

ST RD,RB

(A) LD RA,RC

Node	Value (hex)
A	
B	
C	
D	
E	
F	
G	
H	
I	
J	