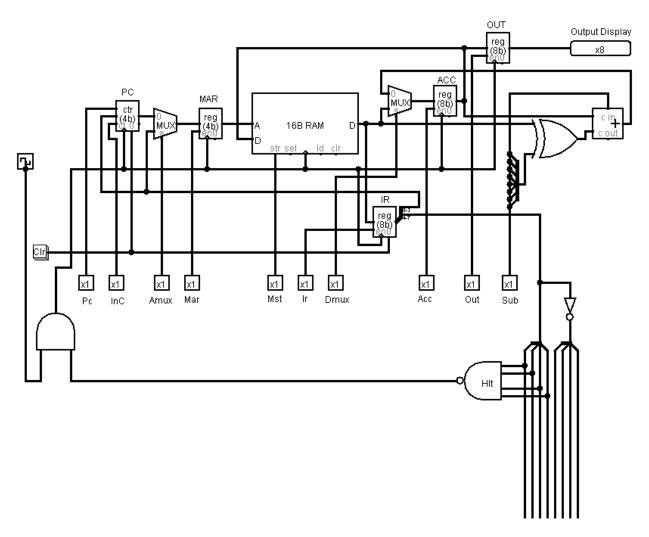
Part 1 - Build the SAM Datapath



10 controls

Part 2 - Coding and Testing the Instruction Fetch Sequence

Instruction fetch							
	Contro	Action					
Inc	Mar	Mst	Ir	f(src) -> dst			
0	0	0	0	PC -> MAR; inc(PC)			
0	0	1	0	Mem(MAR) -> IR			

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Part 3 - Coding and Testing the Lda execution sequence.

Instruction execution transfer sequence							
	Control	Action					
	Mar	Mst	Acc	f(src) -> dst			
Read	1	0	1	Mem(MAR) -> ACC			

With the values given, it properly sent the Mem value to the ACC. As desired.

Part 4 - Instruction exec sequences for all SAM instructions.

Instruction execution transfer sequence							
	Control	Action					
	Mar	Mst	Acc	f(src) -> dst			
Write	1	1	0	Acc -> Mem(MAR)			

