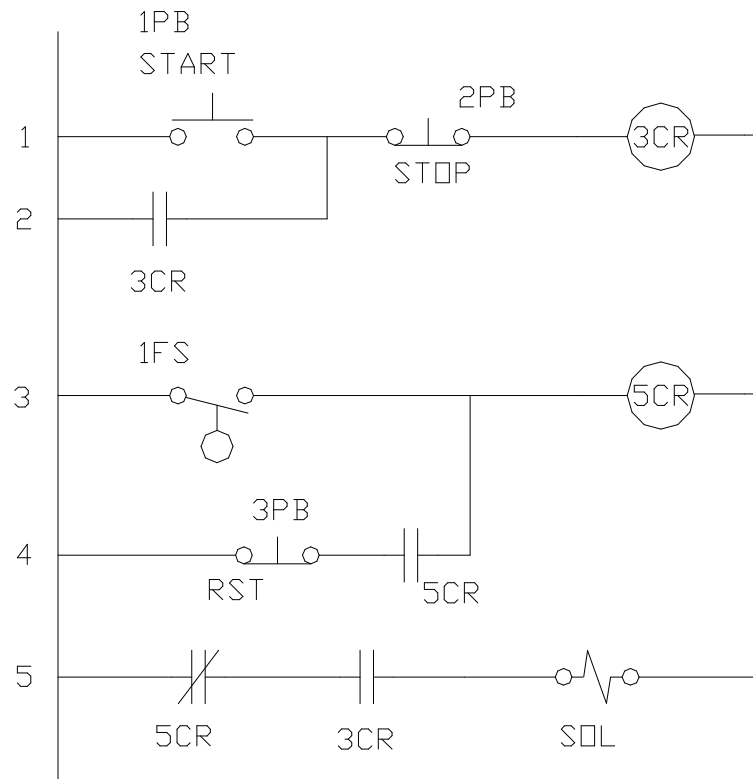


## ET 438b PLC Programming Homework

The circuit shown below is currently implemented using electromechanical relays. Convert it to a PLC rung diagram that uses an Allen-Bradley instruction set. The I/O and bit address are assigned as follows

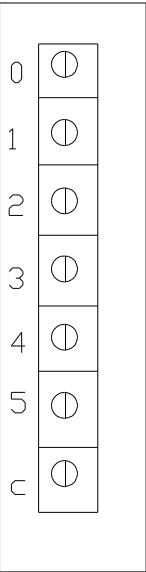
PB1 = I:0/0  
PB2 = I:0/1  
1FS = I:0/2  
PB3 = I:0/3  
SOL = O:0/0  
B3:0/0 = 3CR  
B3:0/1 = 5CR

If 120 Vac inputs and outputs are used sketch the external connections necessary to interface the field devices (used attached terminal diagrams)



# PLC Input and Output modules

input  
module



Output  
module

