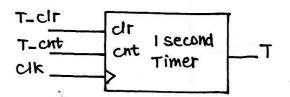
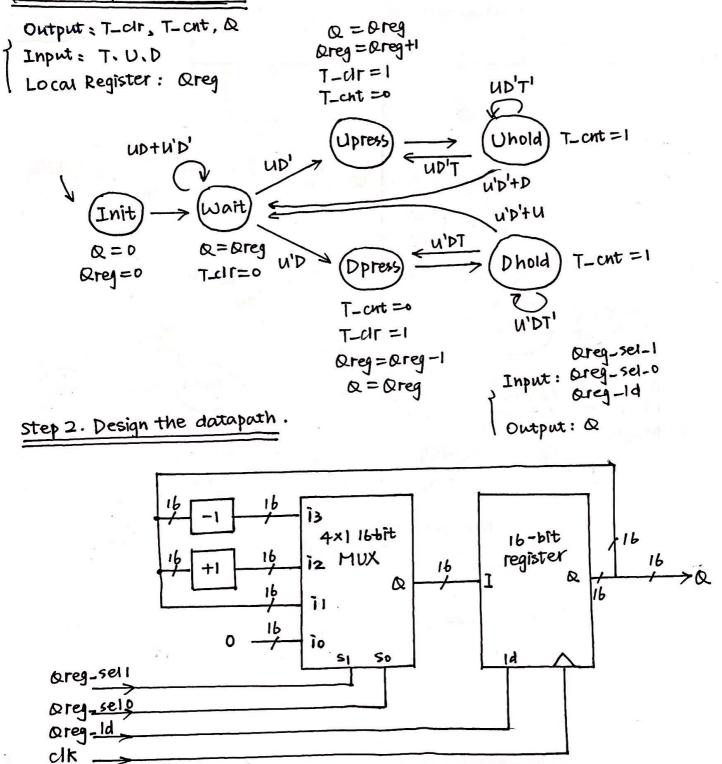
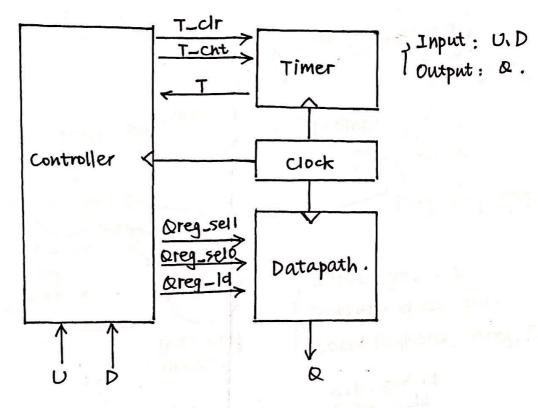
Probl.

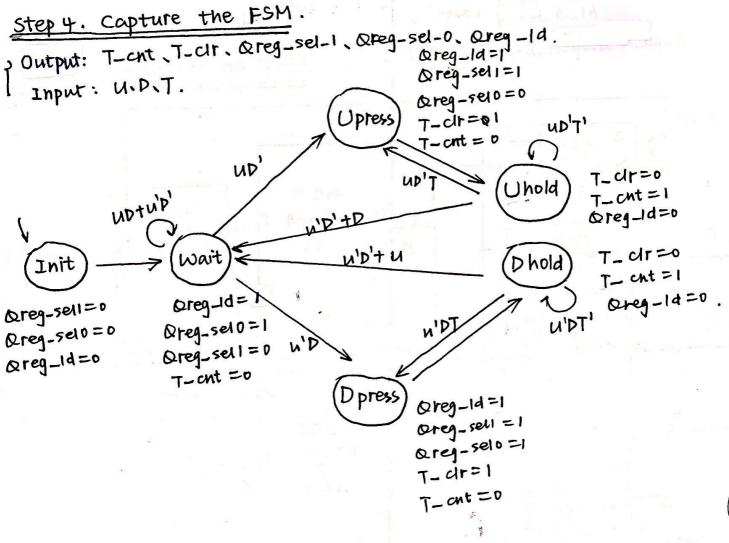
specify the timer to use in the exercise.

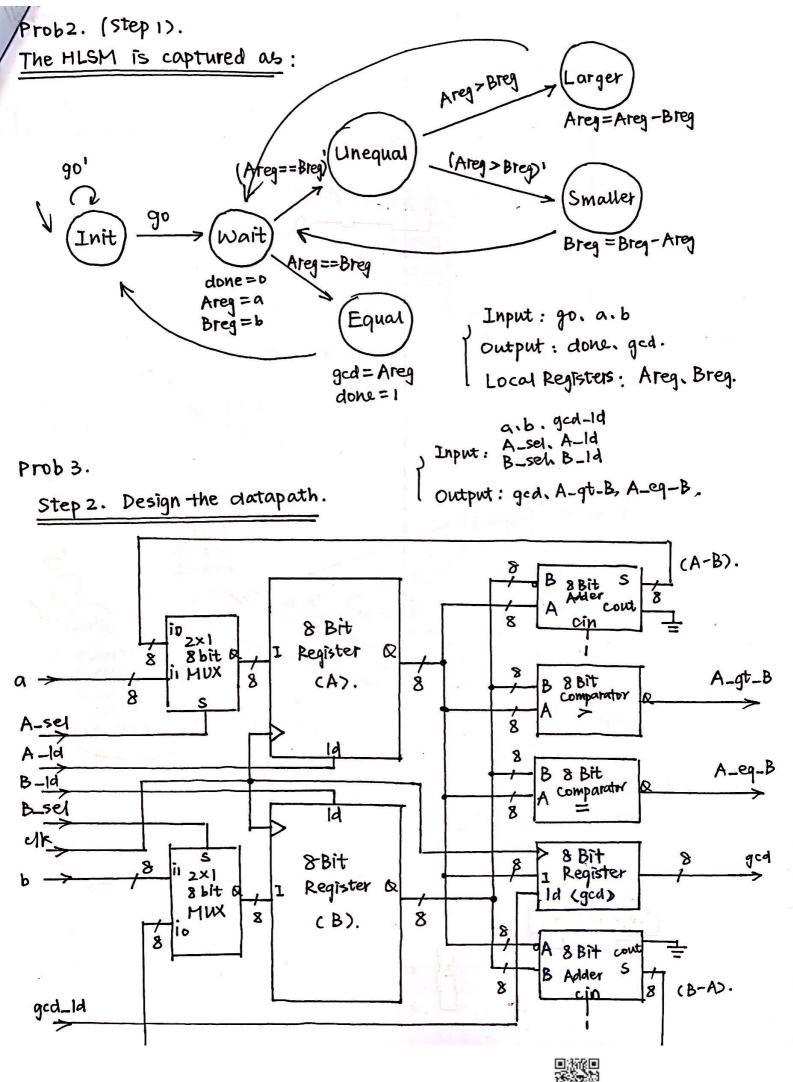


## Step 1. Capture the HLSM:

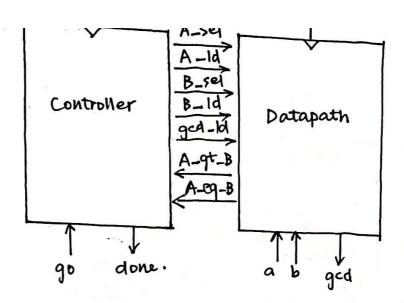




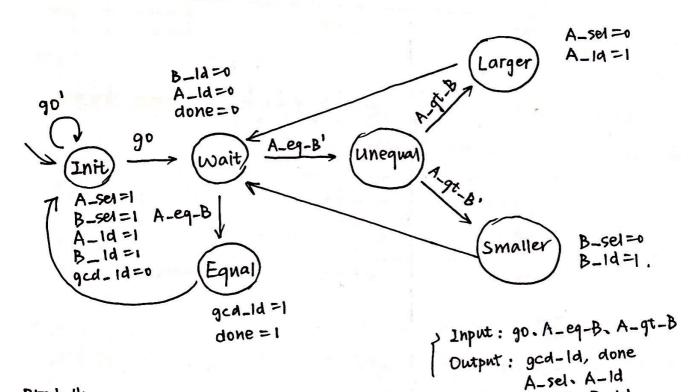




1 Output: done, gcd.



Step 4. Capture the FSM.

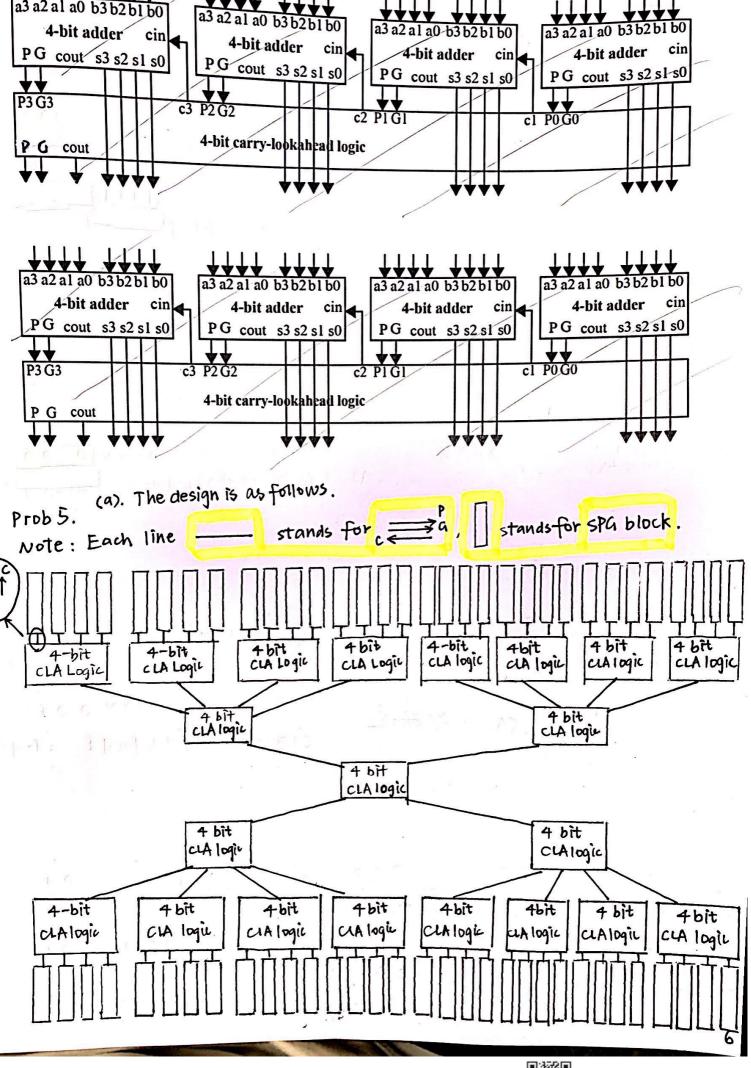


Prob 4.

First convert the decimals into binary.

$$\Delta = (4369^{\circ})_{10} = (1010 1010 1010 1010)_{2} 
 b = (21845)_{10} = (1010 1010 1010 101)_{2} 
 = (0101 0101 0101 0101)_{2}.$$

B-sel. B-1d



8 gate delays. 2: SPG block is 2-gate delay

$$2+2\times5 = 12$$

speedup = 
$$\frac{\text{slower}}{\text{faster}}$$
=  $\frac{128}{12}$ 

$$= 10-7$$

