

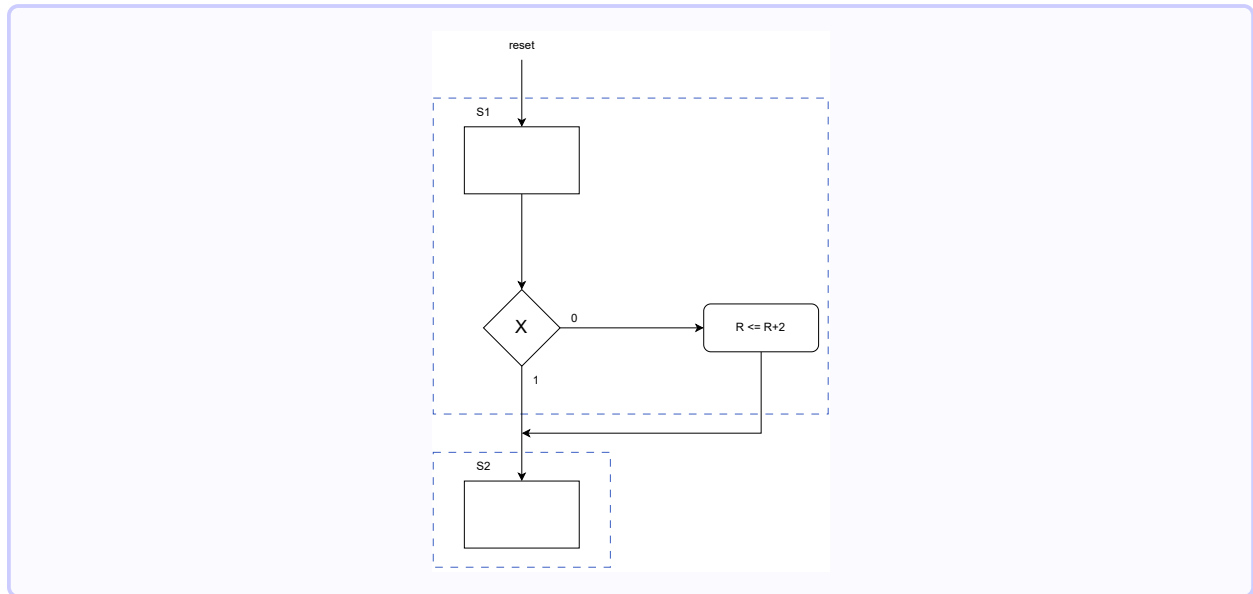
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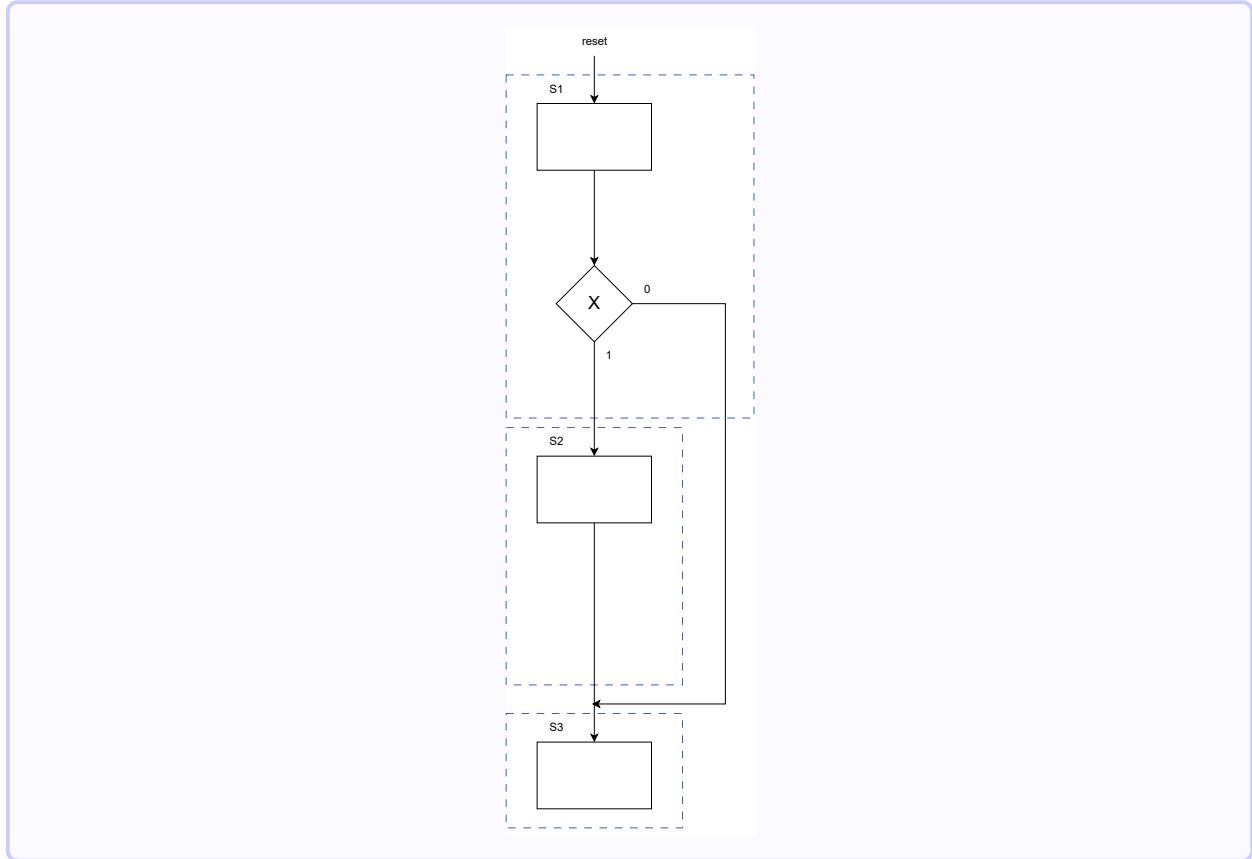
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Question 1. Draw the ASMD chart for each of the following state transition description.

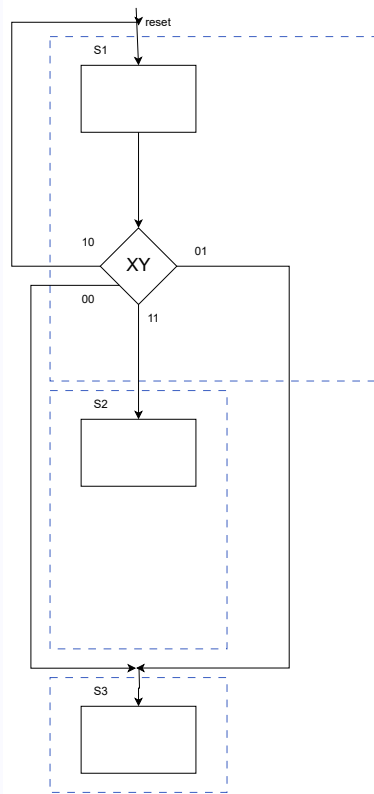
(a)



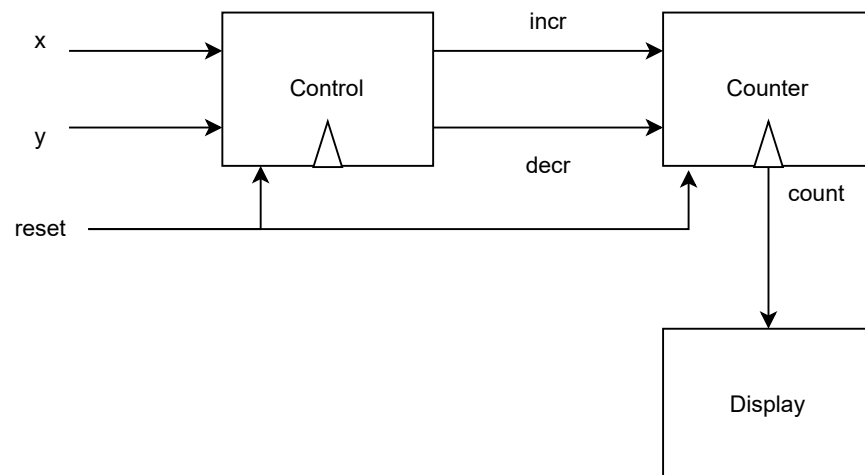
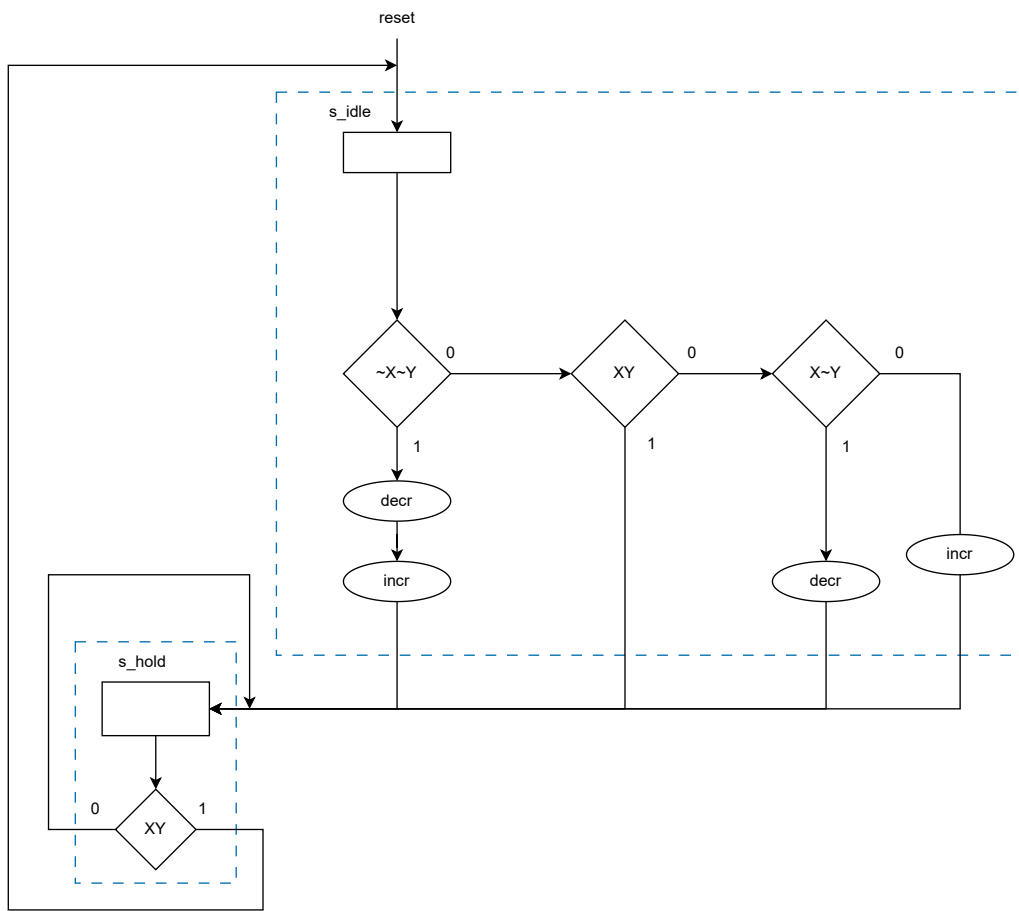
(b)



(c)

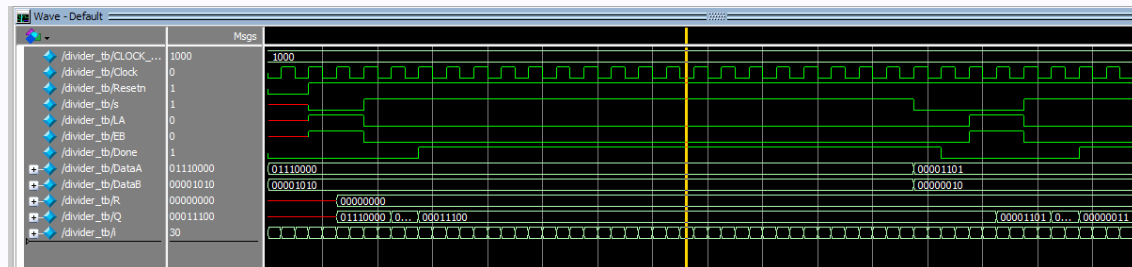


Question 2.



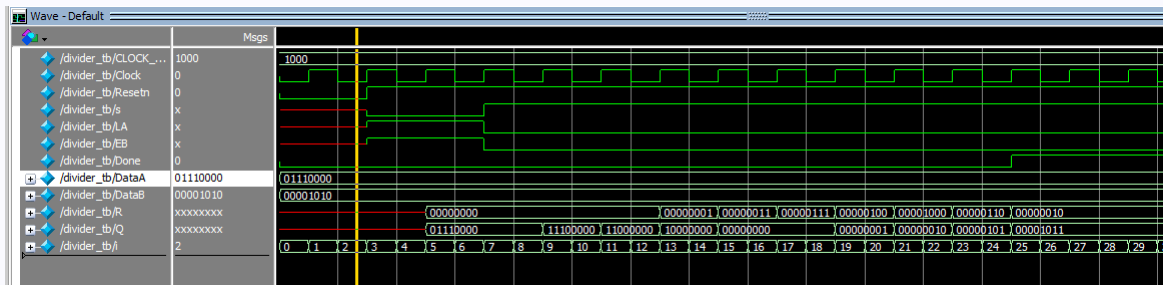
Question 3.

Testbench before:



This testbench shows that the Q is getting right hifted instead of getting left shifted into R. Second, the down counter starts at 0 and never changes. And that makes it so R is never updated.

Testbench after:



Question 4. Experience Report

We found this homework to be medium. Problem 3 was definitely the most confusing part because we had to figure the starter code and understanding that took the most time.

Question 1: 30 minutes

Question 2: 1.5 hours

Question 3: 3 hours