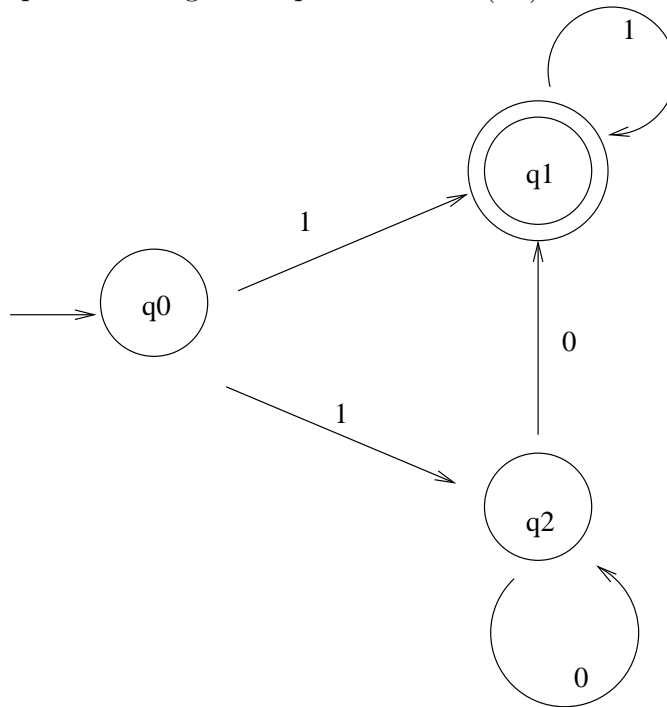


Cpt S 317 Homework #4

Please print your name!

1. Translate the following NFA M into a DFA M' such that $L(M') = L(M)$, and provide a regular expression for $L(M)$.



2. A C -program is deterministic. But I can easily expand it to be a non-deterministic program. For instance, consider the following program:

```
Char c;  
1. Read(c);  
2. if c== 'a' or c== 'b' then  
    goto 1 or goto 3;  
3. if c== 'a'  
    goto 1;  
4. if c != 'b'  
    Abort;  
5. Halt.
```

Tell me the regular expression for all the input sequences of characters that will make the program enter the last statement Halt.