## CSC 4101 Section 1 - 2021 March

## Challenge 1 – State Transition Testing

Group Members:

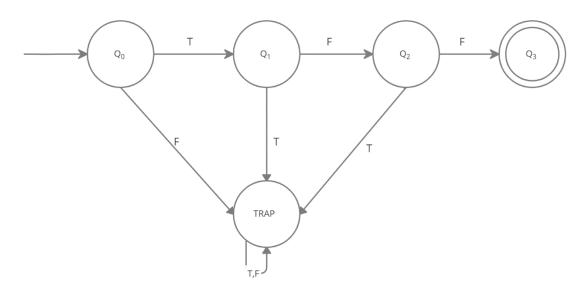
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- 1. Title: Library Book Borrowing System
- 2. Whether or not the system should accept the request to borrow books from the library depends on three factors:
  - a. Whether or not the visitor is already registered to the system or not
  - b. Whether there are outstanding charges on the visitor
  - c. Whether the number of borrowed books is below 3 books
- 3. State transition diagram

$$L_{accept} = \{TFF\}$$

 $L_{\text{reject}} = \{F, TT, TFT\}$ 



## 4. State transition table

Condition				
1. Registered visitor?	F	Т	Т	Т
2. Outstanding charge?		Т	F	F
3. Beyond max book			т	F
quota?			'	,
Action				
1. Accept				/
2. Reject	/	/	/	