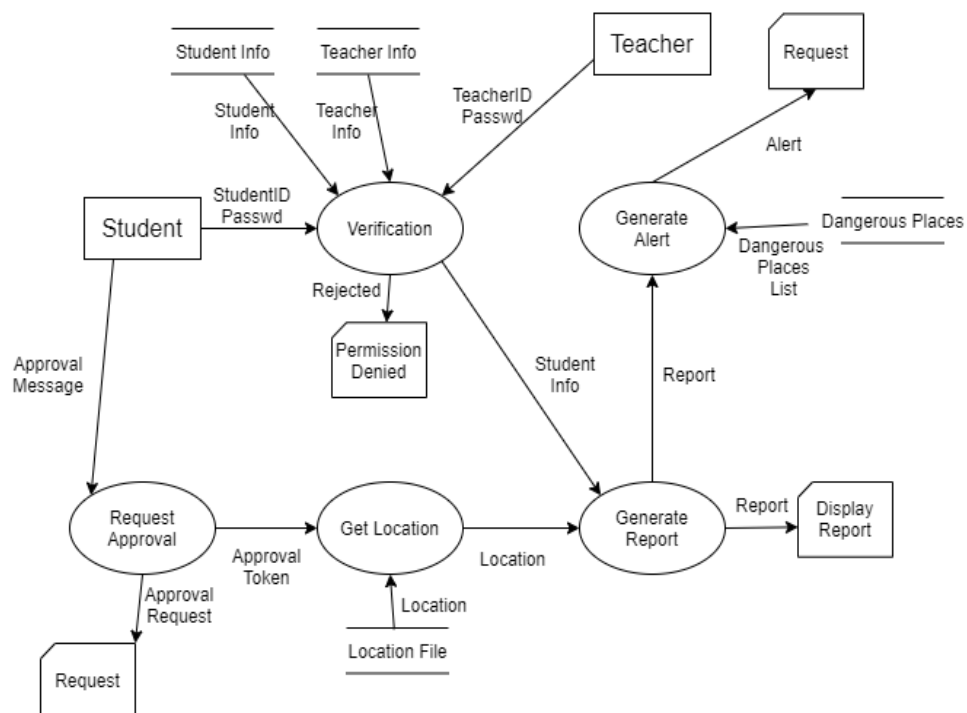# CSCI3100 Software Engineering
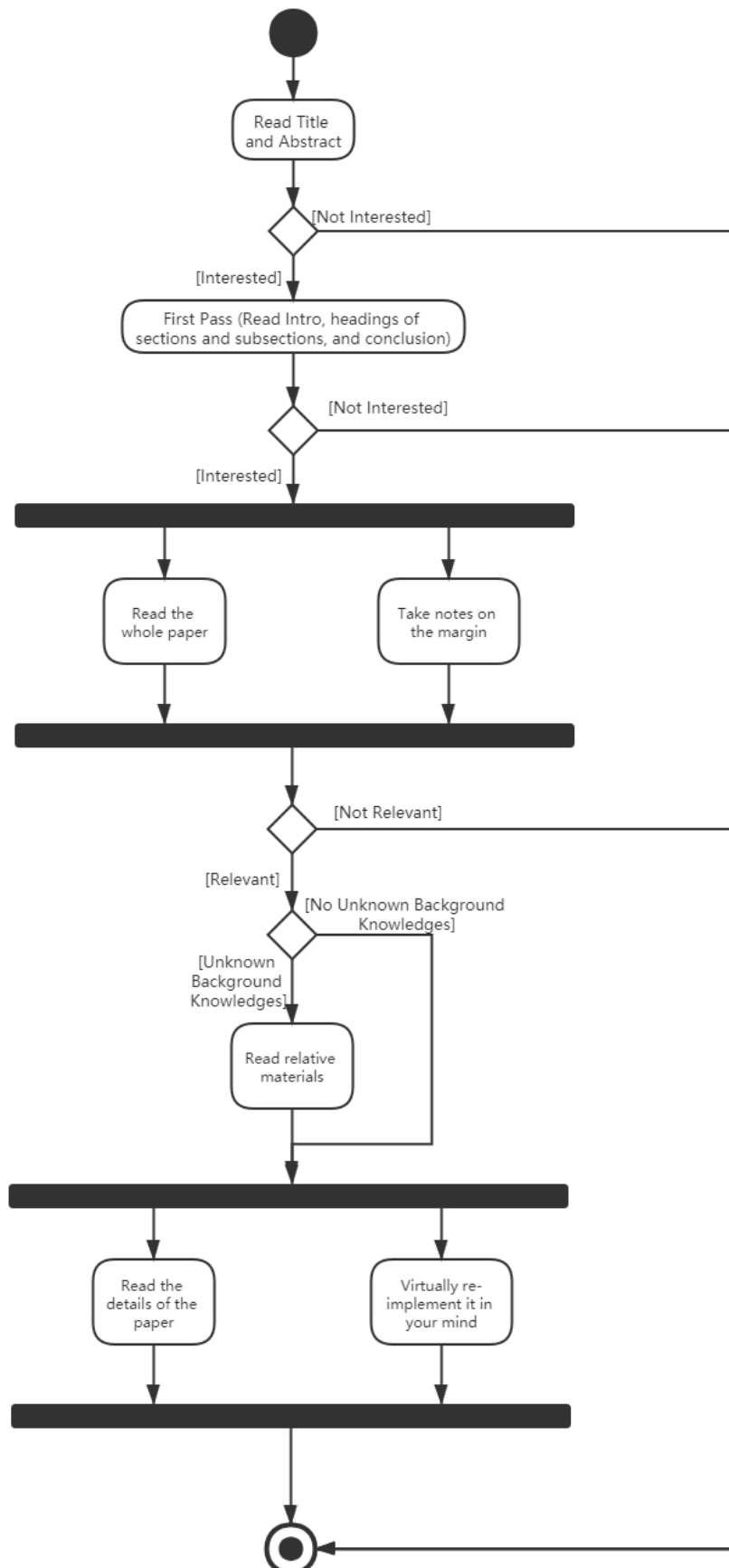
Assignment 2

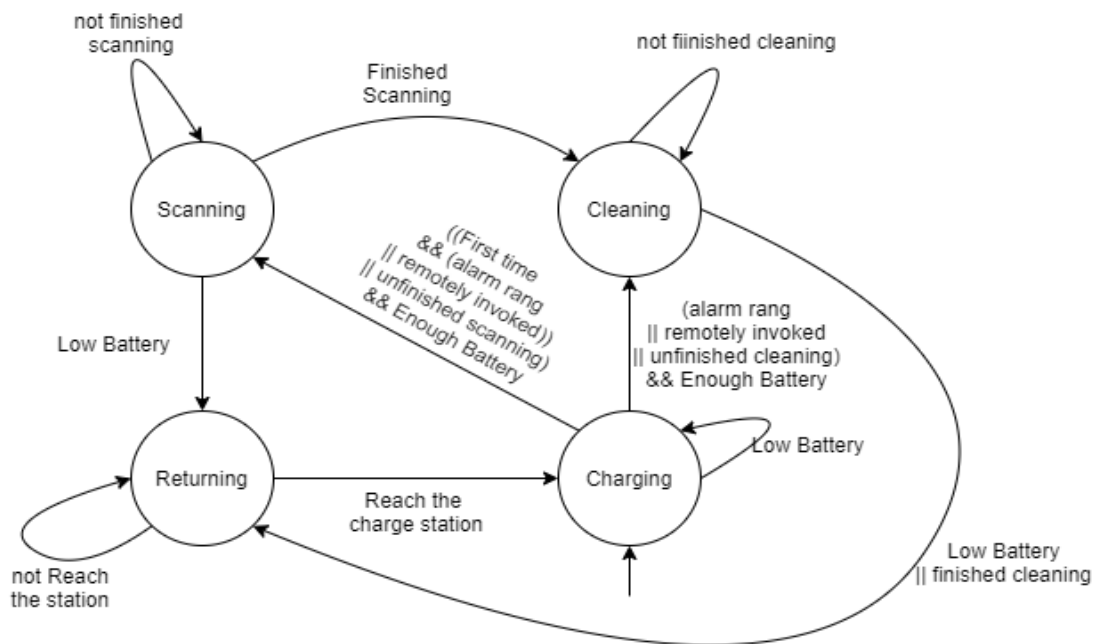# Due – midnight, 28th Feb, 2021 (Sunday)
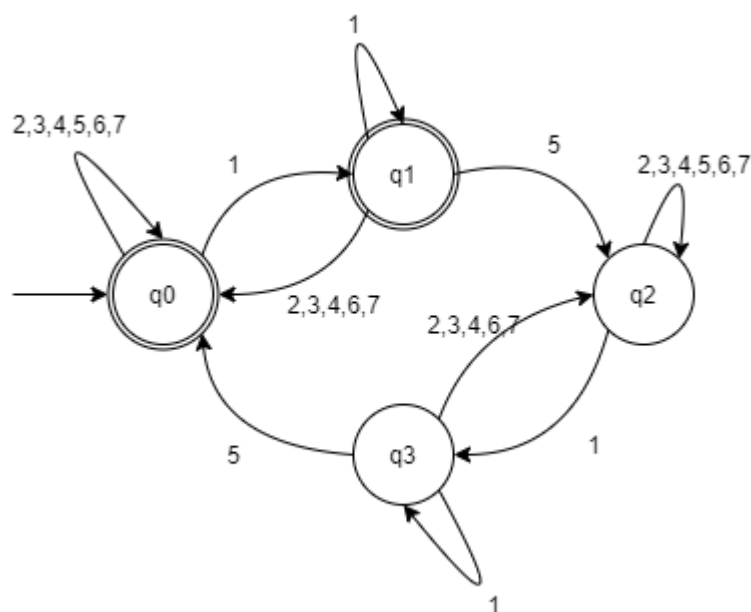
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1. **Answer**

2. Answer

3. Answer

(Note: "&&" is the notion for logical and operator. "||" is the notion for logical or operator)

Advantage: Clearly visualize the actions of the robot.

Disadvantage: May become extremely complex.
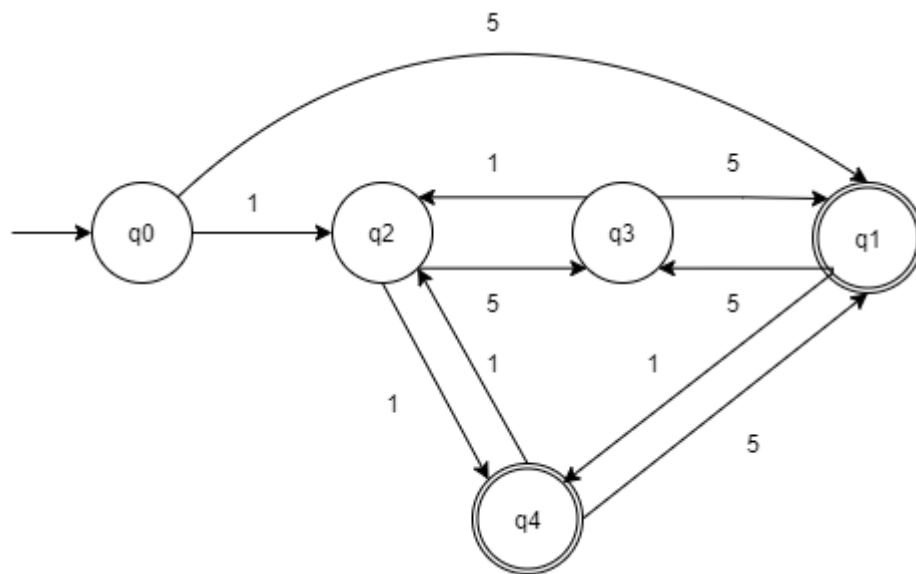
4. Answer

a)

q0: initial state

q0: strings contain an even number of times of "15" and do not end with "1";

q1: strings contain an even number of times of "15" and end with "1";

q2: strings contain an odd number of times of "15" and do not end with "1";

q3: strings contain an odd number of times of "15" and end with "1".

b)

q0: initial state
q1: strings with an odd number of digits and end with "5";
q2: strings with an odd number of digits and end with "1";
q3: strings with an even number of digits and end with "5";
q4: strings with an even number of digits and end with "1";