## CSC236 Worksheet 8 Solution

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## Question 1

## Notes:

- Deterministic Finite State Automaton (DFSA): is a mathematical method of machine which, given any input string x, accepts or rejects x.
- Applications of DFSA
  - 1. Vending Machine
  - 2. Protocol analysis
  - 3. Text parsing
  - 4. Video game character behavior
  - 5. Security Analysis
  - 6. <u>CPU control units</u> (\*\*)
  - 7. Natural Language Processing ((\*\*)
  - 8. Speech Recognition (\*\*)