CMPE 222
Spring 2018
Popup Quiz #1

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Name Lastname:
ID:
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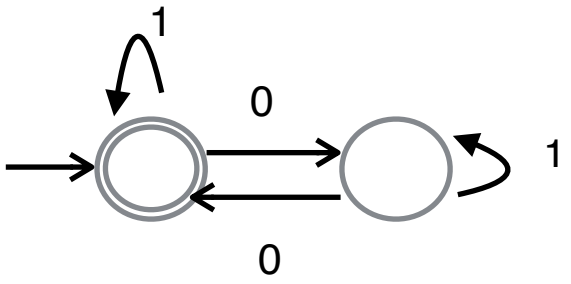
1. The language L = {ω | ω starts with the 00 substring or 11 substring}. The alphabet, Σ = {0,1}

   - **(10 pts)** Write 5 strings in L and 5 strings **not** in L (all strings you write should be from the alphabet Σ)

   - 2. **(40 pts)** Design a FSA (finite-state automaton) that recognizes L.

2. **(50 pts)** Consider the following FSA, M. The alphabet, Σ = {0,1}



   - **(20 pts)** Write 5 strings accepted by M and 5 strings **not** accepted by M (all strings you write should be from the alphabet Σ)

   - **(30 pts)** Describe verbally (in a compact way) the language that M recognizes.