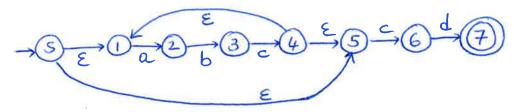
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September 10, 2014

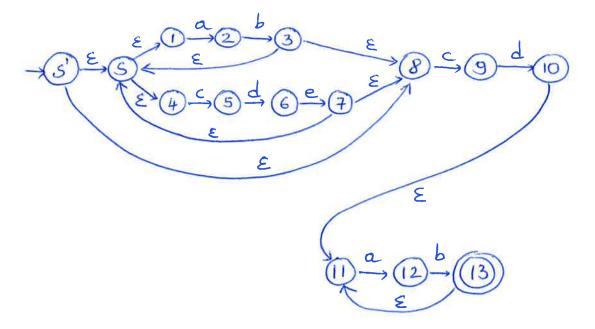
10 minutes / 10 points

NAME: SOLUTION

Question 1. [5 points] Build a finite automaton from smaller basic ones as seen in class for the following regular language: $L_1 = (abc)^*$. cd.



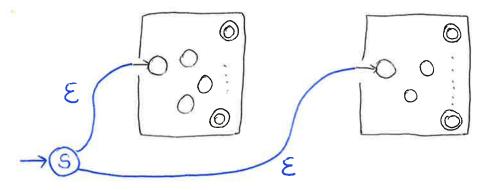
Question 2. [5 points] Build a finite automaton from smaller basic ones as seen in class for the following regular language: $L_1 = (ab \ U \ cde)^*$. cd. $(ab)^*$.



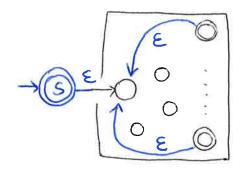
10 minutes / 10 points

NAME: SOLUTION

Question 1. [3 points] Build the union of the following two automata:



Question 2. [3 points] Build the star of the following automaton:



Question 3. [4 points] Given the following three automata M1, M2, and M3, build an automaton that recognizes $(L(M1) \cup L(M2))*.L(M3)$.

