Solutions for Problem #5 of CS10 Practice Final
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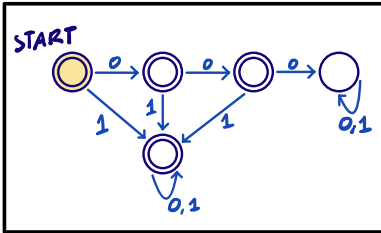 Last Updated: 23F

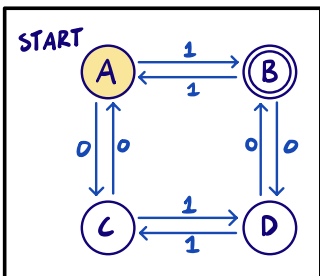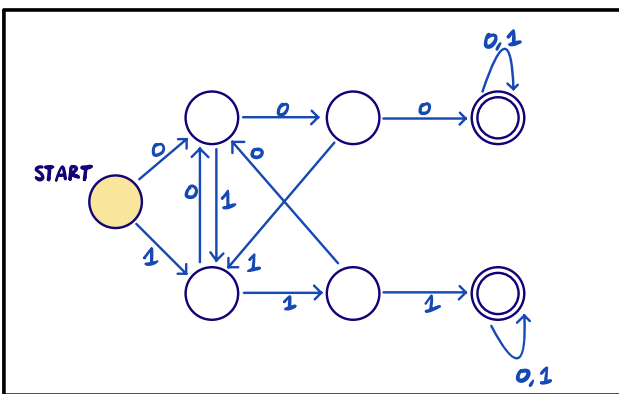* START nodes are colored in yellow

5.1)
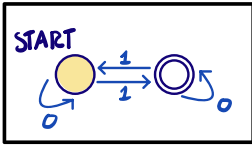
5.2)

5.3)

To make this easier, we can define four states as follows, where ● = Accept and ● = Reject.

A: even # of 0's and 1's
B: even # of 0's and odd # of 1's
C: odd # of 0's and even # of 1's
D: odd # of 0's and 1's

The empty string has an even # of 0's and 1's, so we will start at A.

5.4)

The upper branch handles 000

The lower branch handles 111

5.5)