

SEDA Group 1

Manasi Patil

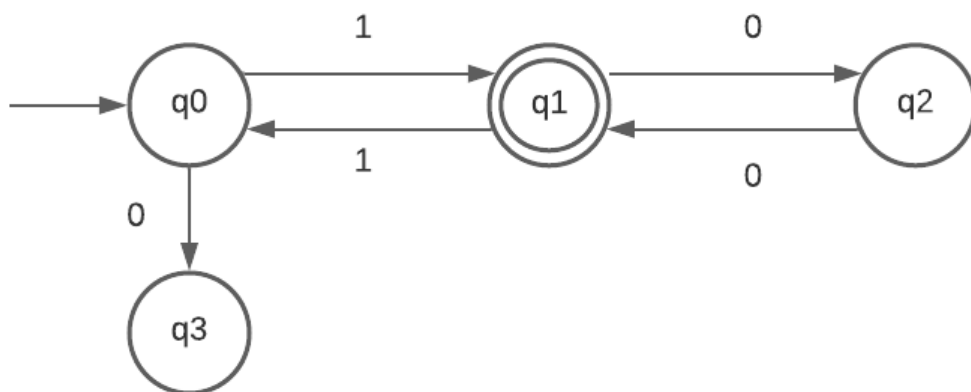
Uma Thakur

Chaitanya Patil

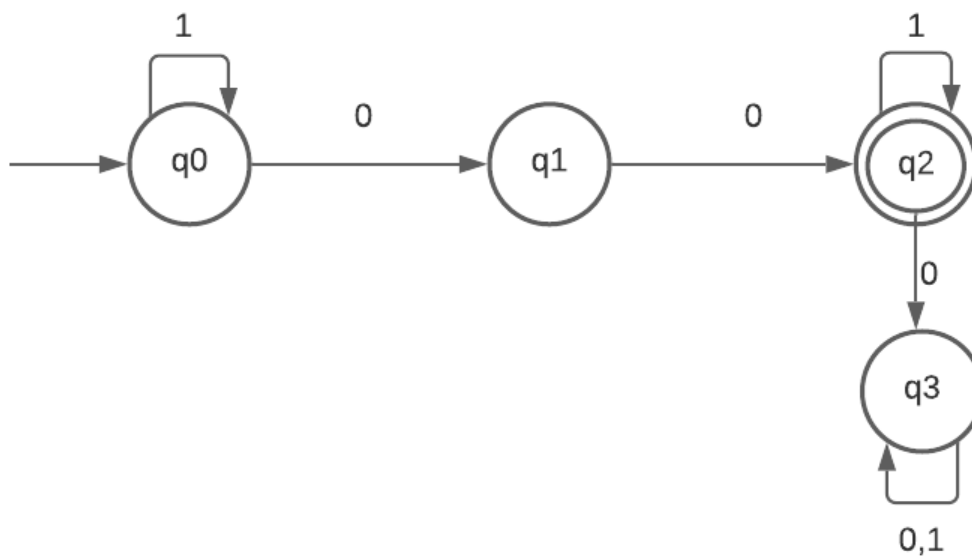
Bhavin Patil

BLOG: Solve 5 challenging problems on NFA, DFA

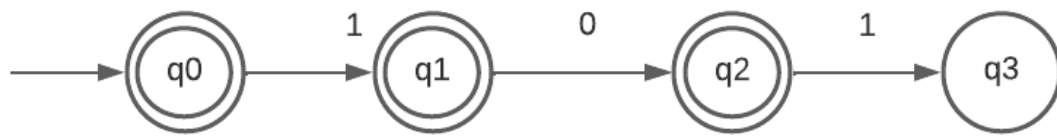
1. Draw FA for any string without an odd number of consecutive O's after an odd number of consecutive 1's over the alphabet $\{0,1\}$



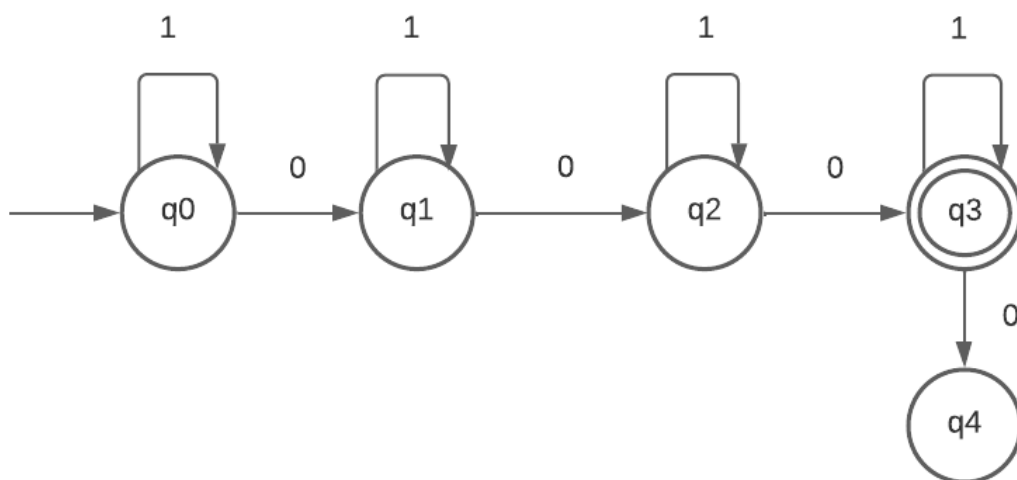
2. Draw DFA for any string containing exactly 2 consecutive O's over the alphabet $\{0, 1\}$.



3. Draw DFA for all strings that don't contain the substring 101



4. Draw DFA for all strings that contain exactly 3 zeros over {0, 1}.



5. Convert following NFA to its equivalent DFA

states	a	B	Є
->q0	q2	-	q1
*q1	q0	-	-
q2	q1	{q2, q1}	-

DFA:

states	A	B	C
q0	q2	-	q1
q1	q0	-	-
q2	q1	q1q2	-
q1q2	q0q1	q1q2	-
q0q1	q0q2	-	-
q0q2	q1q2	q1q2	-