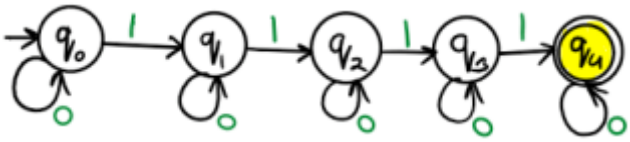
RGPV 2008

Prob 01: Designa FA which accepts set of strings containing four 1's in every string over alphabet ∑ = {0, 1}.

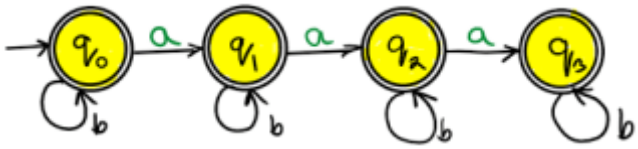
Ans. Some example strings = {1111,0110101, 001100110}



RGPV 2016

Prob 02. Design NFA that accepts all strings with at most 3 a's.

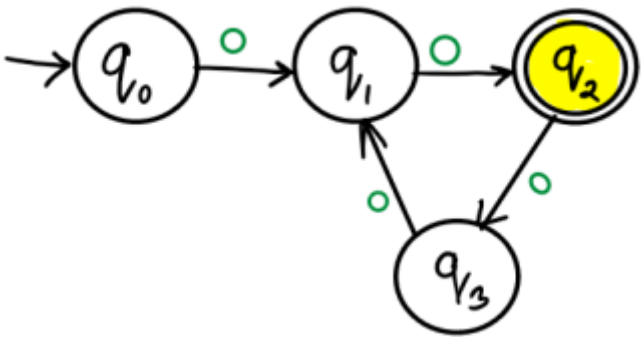
Ans. Some example strings = {aaa, baba, a, ab}



RGPV 2014

Prob 03: Construct a finite automata for the language $\{0^n \mid n \bmod 3 = 2, n>=0\}$

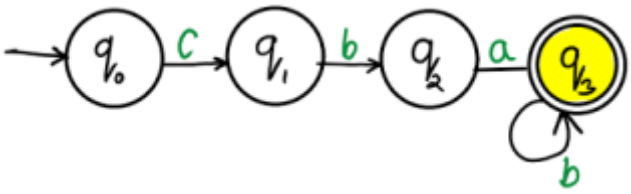
Ans. Some example strings = {00,00000,00000000}



RGPV 2016

Design a NFA for {cbab^n | n>=0}

Ans. Some example strings = {cba, cbab, cbabb, cbabbb}



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19. CNF from S–>aAD;A->aB/bAB;B->b,D->d.
20. NDFA accepting two consecutive a’s or two consecutive b’s.
21. Regular expresion to CFG
22. Regular expression to Regular grammar
23. Grammar is ambiguous. S → aSbS|bSaS|∈
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25. Construct Moore machine for Mealy machine