RGPV PYQs
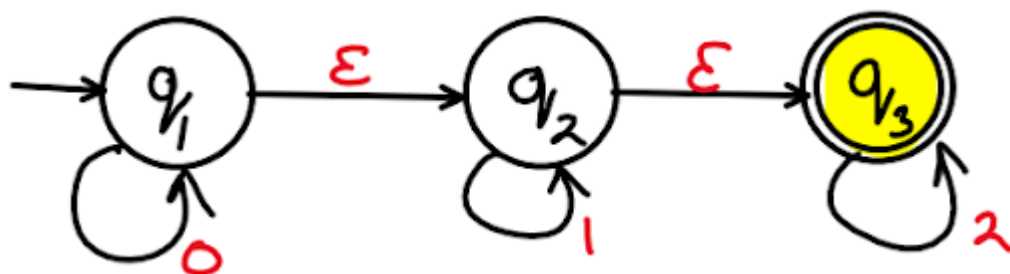

NFA with ∈

Solution.

Step 01: Find ∈-closure of (q1), (q2) and (q3).

- ∈-closure of (q1) = {q1, q2, q3}
- ∈-closure of (q2) = {q2, q3}
- ∈-closure of (q3) = {q3}

For each state find the next state for each input.

See the table below,

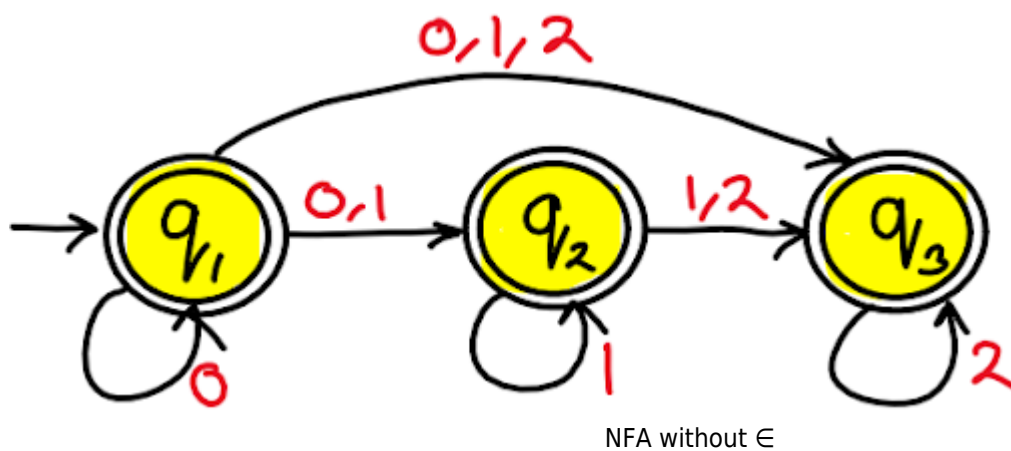| State	0	1	2
->q1	{q1,q2,q3}	{q2,q3}	{q3}
q2	φ	{q2,q3}	{q3}
q3	φ	φ	{q3}

From the question diagram, it is clear that only with ∈ input q1 and q2 state can reach to the

final state.

So, now without ∈ input, q1 and q2 is also treated as final states.

As shown in diagram below.

NFA without ∈

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43. Minimization of DFA

44. Construct NFA without ∈

45. CNF from S–>aAD;A->aB/bAB;B->b,D->d.

46. NDFA accepting two consecutive a's or two consecutive b's.

47. Regular expresion to CFG

48. Regular expression to Regular grammar

49. Grammar is ambiguous. S → aSbS|bSaS|∈

50. leftmost and rightmost derivations

51. Construct Moore machine for Mealy machine

52. RGPV TOC PYQs

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