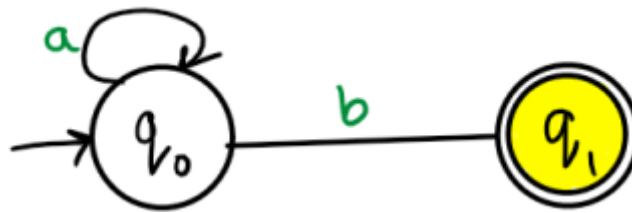


## RGPV 2009

Q. Construct DFA for  $a^n b \mid n \geq 0$ .

Ans. Some example strings = {ab, aab, aaab, aaaab}

Minimum number of states required = 2.



## Related Posts:

1. DFA accept even 0 and even 1 | RGPV TOC PYQ
2. DFA ending with 00 start with 0 no epsilon | RGPV TOC PYQ
3. DFA ending with 101 | RGPV TOC PYQ
4. Construct FA divisible by 3 | RGPV TOC PYQ
5. NFA to DFA | RGPV TOC
6. Moore to Mealy | RGPV TOC PYQ
7. RGPV TOC What do you understand by DFA how to represent it
8. RGPV short note on automata
9. RGPV TOC properties of transition functions
10. RGPV TOC What is Trap state
11. CFL are not closed under intersection
12. Short note on automata | RGPV TOC PYQ
13. Construct DFA equivalent to NFA | RGPV TOC PYQ
14. RGPV Define Mealy and Moore Machine

15. RGPV TOC Short note on equivalent of DFA and NFA
16. RGPV notes Write short note on NDFA
17. CNF from  $S \rightarrow aAD; A \rightarrow aB/bAB; B \rightarrow b, D \rightarrow d$ .
18. NDFA accepting two consecutive a's or two consecutive b's.
19. Regular expression to CFG
20. Regular expression to Regular grammar
21. Grammar is ambiguous.  $S \rightarrow aSbS|bSaS| \epsilon$
22. leftmost and rightmost derivations
23. Construct Moore machine for Mealy machine
24. Definition of Deterministic Finite Automata
25. Notations for DFA
26. How do a DFA Process Strings?
27. DFA solved examples
28. Definition Non Deterministic Finite Automata
29. Moore machine
30. Mealy Machine
31. Regular Expression Examples
32. Regular expression
33. Arden's Law
34. NFA with  $\epsilon$ -Moves
35. NFA with  $\epsilon$  to DFA Indirect Method
36. Define Mealy and Moore Machine
37. What is Trap state ?
38. Equivalent of DFA and NFA
39. Properties of transition functions
40. Mealy to Moore Machine
41. Moore to Mealy machine

42. Difference between Mealy and Moore machine
43. Pushdown Automata
44. Remove  $\epsilon$  transitions from NFA
45. TOC 1
46. Difference between Mealy and Moore machine
47. What is Regular Expression
48. What is Regular Set in TOC
49. DFA which accept 00 and 11 at the end of a string
50. DFA end with 1 contain 00 | RGPV TOC draw
51. RGPV TOC design finite automata problems
52. Minimization of DFA
53. Construct NFA without  $\epsilon$
54. RGPV TOC PYQs
55. Introduction to Automata Theory