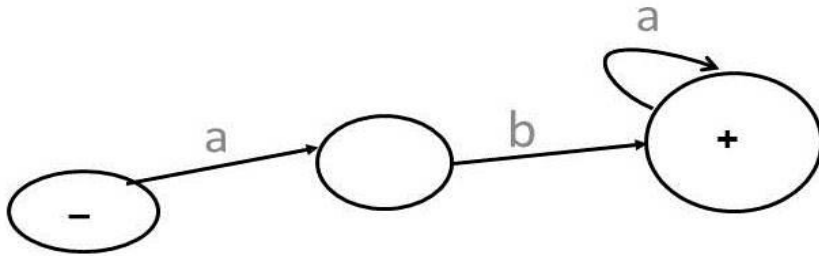


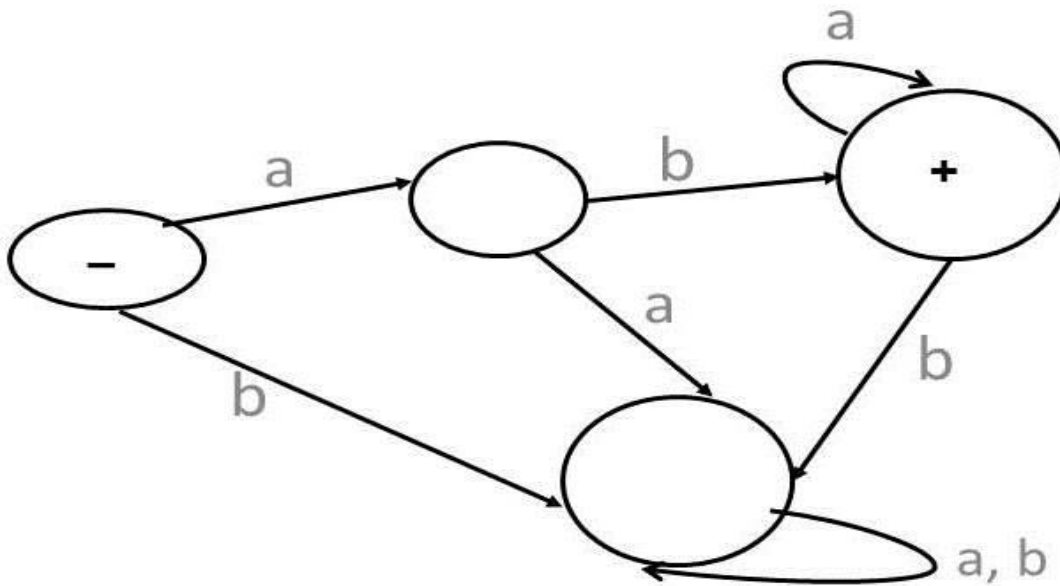
S₁: Construct a Non-Deterministic Finite Automaton (NFA) for aba^* . Examine if the automaton accepts (1) abaa, (2) baba, (3) ab, (4) abb, and (5) abab (and answer yes or no for each). In addition, construct a Deterministic Finite Automaton (DFA) for aba^* .



An NFA for aba^*

Does the NFA accept the following strings?

- | | |
|----------|-----|
| (1) abaa | Yes |
| (2) baba | No |
| (3) ab | Yes |
| (4) abb | No |
| (5) abab | No |



A DFA for aba^*