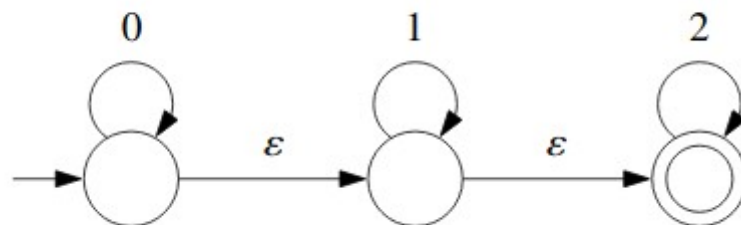
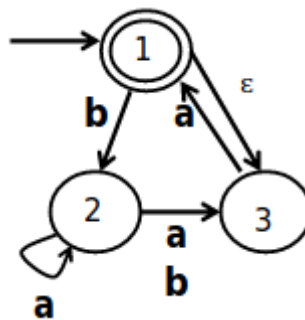


1. Convert the following regular expressions to nondeterministic finite automata (nfa)

$$((b|a)^*|(b|a))^*(ab)^*$$

$$a(aa)^* + (a(aa)^*b + b)^*(\lambda + a(aa)^*)$$

2. convert the following nfa to dfa.



3. Run the input sequence **aabab** on the following machines. What are the respective outputs?

