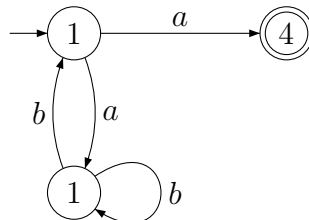


## NON-DETERMINISTIC FINITE AUTOMATA

**Questions:****Question 1**

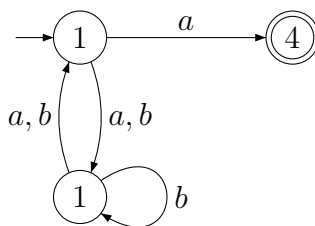
Given the automaton:



enumerate the first ten words in canonical order of the language it accepts.

**Question 2**

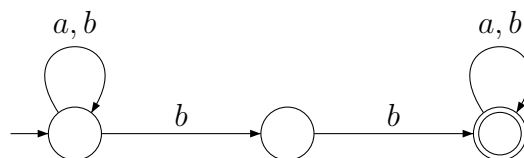
Given the automaton:



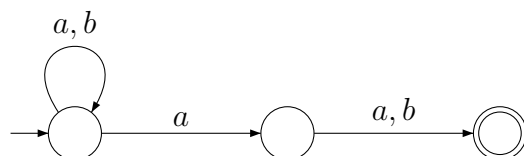
enumerate the first ten words in canonical order of the language it accepts.

**Question 3**

Provide a description (the shorter the better) of the language accepted by the following automaton:

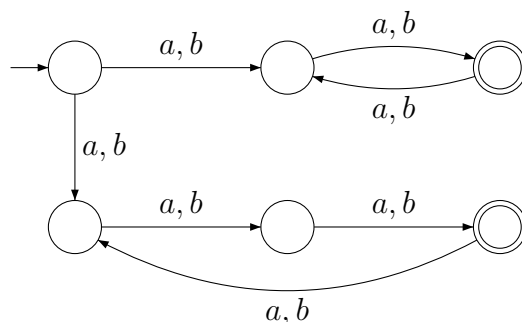
**Question 4**

Provide a description (the shorter the better) of the language accepted by the following automaton:

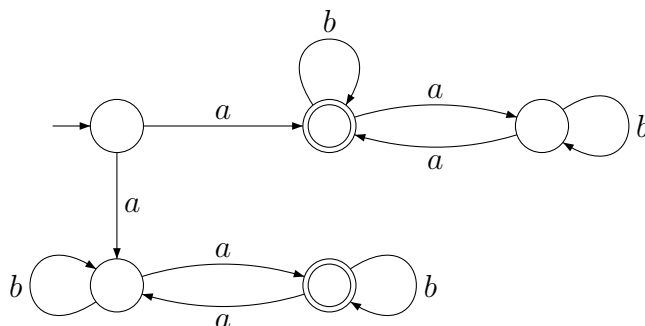


**Question 5**

Provide a description (the shorter the better) of the language accepted by the following automaton:

**Question 6**

Provide a description (the shorter the better) of the language accepted by the following automaton:

**Question 7**

Provide a NFA to accept the language  $L = \{x \in \{a, b\}^* : aa \in Seg(x)\}$

**Question 8**

Provide a NFA to accept the language  $L = \{x \in \{a, b\}^* : |x| \geq 2 \wedge bb \notin Suf(x)\}$

**Question 9**

Provide a NFA to accept the language  $L = \{x \in \{a, b\}^* : |x|_a \equiv 0 \pmod{2} \vee |x|_a \equiv 0 \pmod{3}\}$

**Question 10**

Given the language  $L = \{xb : x \in \{a, b\}^*\}$ , provide three different automata that accept  $L$ .