

# 01

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## 1

### 1.

$\epsilon, a, aa, aaa, aaaa, aaaaa$

### 2.

$aaa, aab, aba, abb, baa, bab, bba, bbb$

### 3.

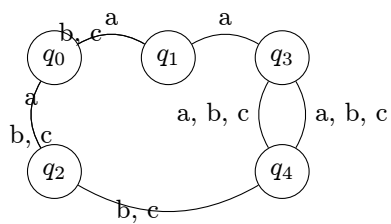
$ab, aabb, aababb, aabababb$

## 2

...

## 3

## 1



[01\\_03.pdf](#)

## 2.

$\epsilon$

$q_0 \xrightarrow{\epsilon} q_0$

$abab$

$q_0 \xrightarrow{a} q_1 \xrightarrow{b} q_4 \xrightarrow{a} q_3 \xrightarrow{b} q_4$

*abbaa*

$$q_0 \xrightarrow{a} q_1 \xrightarrow{b} q_0 \xrightarrow{b} q_2 \xrightarrow{a} q_0 \xrightarrow{a} q_1$$

*caaaa*

$$q_0 \xrightarrow{c} q_2 \xrightarrow{a} q_0 \xrightarrow{a} q_1 \xrightarrow{a} q_3$$

**3.**

$$L(B) = \{w_1, \dots, w_n \mid n \geq 0, w_n \in \{ab, ac, ba, ca\}\}$$

**4.**