$$L(M) = \{ab^n \text{ or } ba^n \mid n \ge 0\}$$

$$\cdots \mid B \mid a \mid b \mid b \mid B \mid \cdots$$

- 1: Store the information that the first symbol in the storage
- 2: while there is a complement symbol do
- 3: Read the complement symbol of the symbol stored in the storage
- 4: end while

$$L(M) = \{ab^n \text{ or } ba^n \mid n \ge 0\}$$

$$\dots \mid B \mid a \mid b \mid b \mid B \mid \dots$$

$$[a \to a][b \to b]R$$

$$[b \to b][a \to a]R$$

$$[B \to a][a \to a]R$$

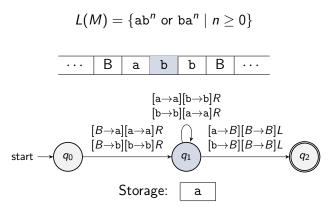
$$[B \to b][b \to b]R$$

$$[a \to B][B \to B]L$$

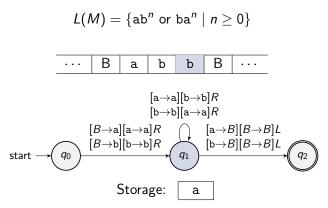
$$[b \to B][B \to B]L$$

$$[a \to B][B \to B]$$

Store the information that the first symbol in the storage.



Read the complement symbol of the symbol stored in the storage.



Repeat until there is no more complement symbol.

$$L(M) = \{ab^n \text{ or } ba^n \mid n \ge 0\}$$

$$\dots \mid B \mid a \mid b \mid b \mid B \mid \dots$$

$$[a \to a][b \to b]R$$

$$[b \to b][a \to a]R$$

$$[B \to a][a \to a]R$$

$$[a \to B][B \to B]L$$

$$[a \to B][B \to B][B \to B]L$$

$$[a \to B][B \to B][B \to B]$$

$$[a \to B][B \to B]$$

$$[a$$