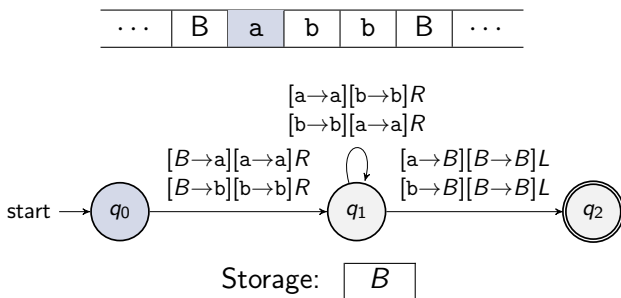


Construct a Turing machine with storage that accepts the language:

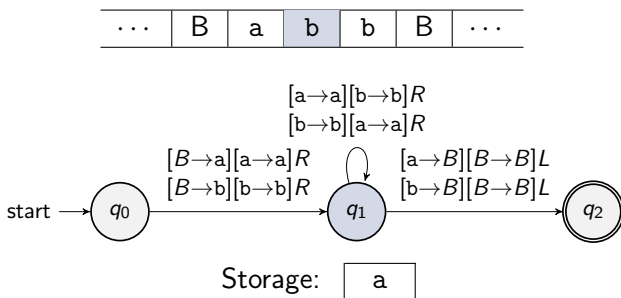
$$L(M) = \{ab^n \text{ or } ba^n \mid n \geq 0\}$$



Store the information that the first symbol is a in the storage.

Construct a Turing machine with storage that accepts the language:

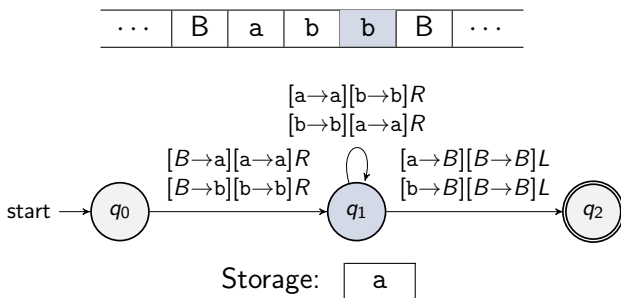
$$L(M) = \{ab^n \text{ or } ba^n \mid n \geq 0\}$$



Read complement symbol of the symbol stored in the storage.

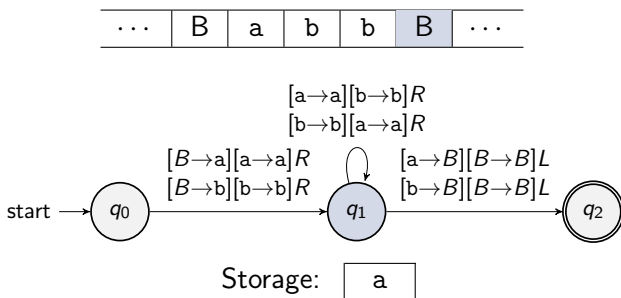
Construct a Turing machine with storage that accepts the language:

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



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