

Construct a Turing machine that computes the function:

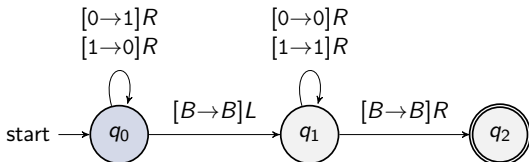
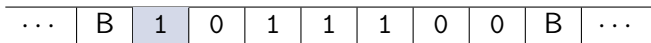
$$f(w) = (\text{the flip of each bit in } w)$$

...	B	1	0	1	1	1	0	0	B	...
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- 1: Flip each bit of the input: $1 \rightarrow 0$ and $0 \rightarrow 1$
- 2: Go to the first input symbol

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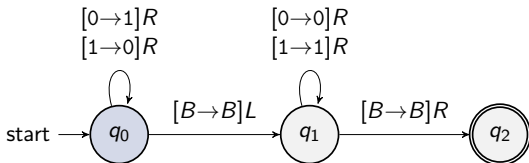
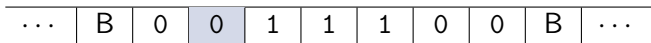
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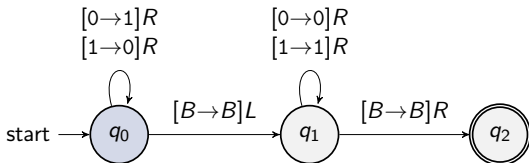
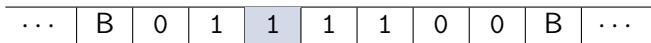
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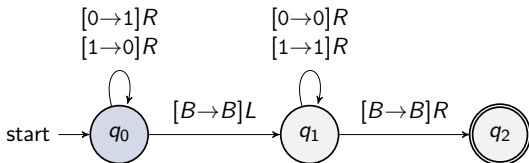
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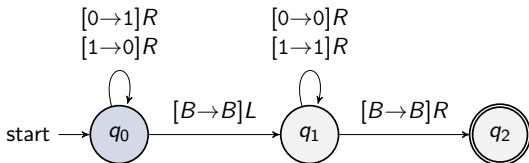
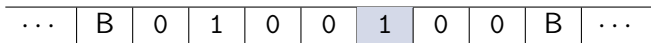
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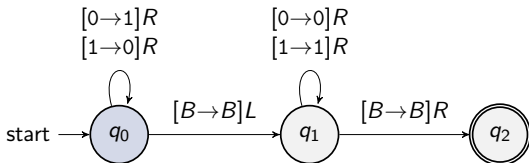
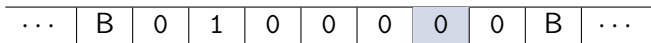
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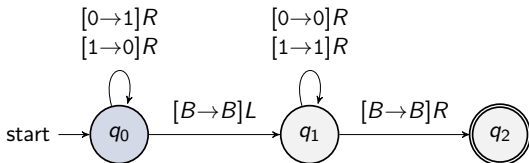
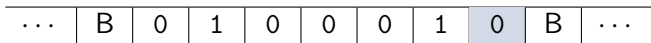
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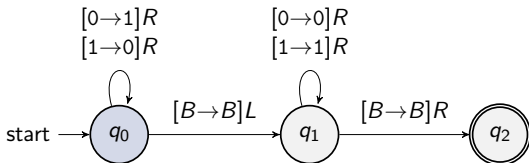
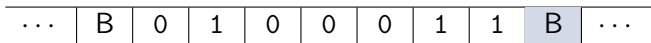
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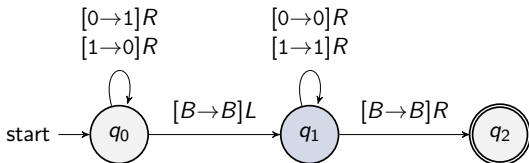
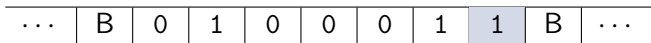
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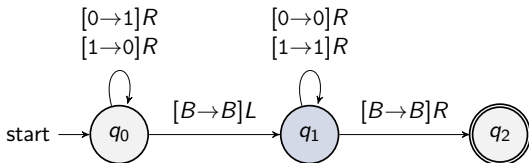
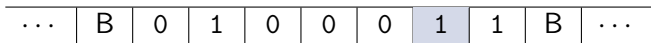
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Go to the first input symbol.

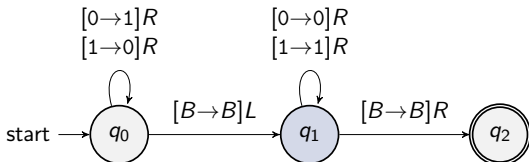
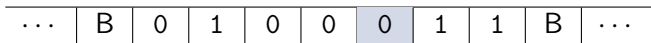
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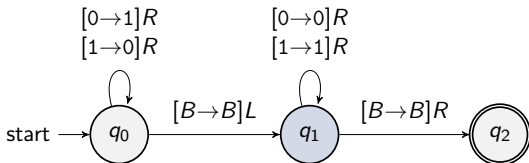
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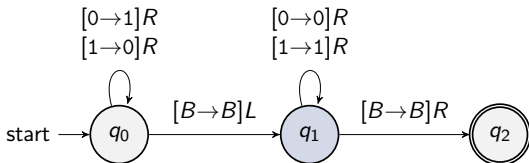
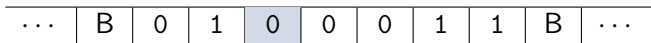
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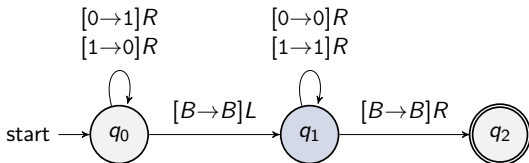
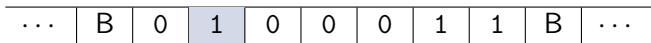
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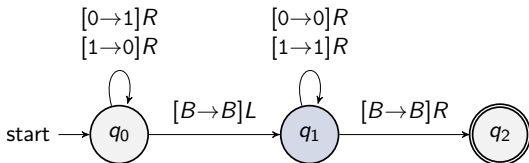
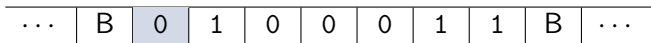
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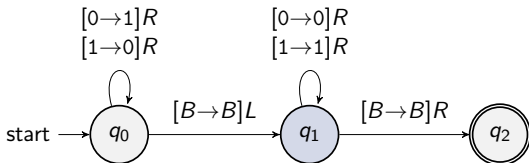
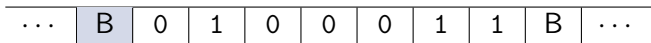
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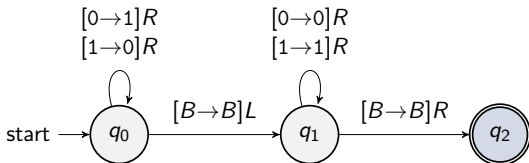
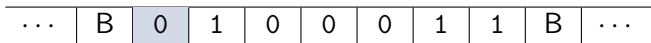
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Computed! $f(1011100) = 0100011$