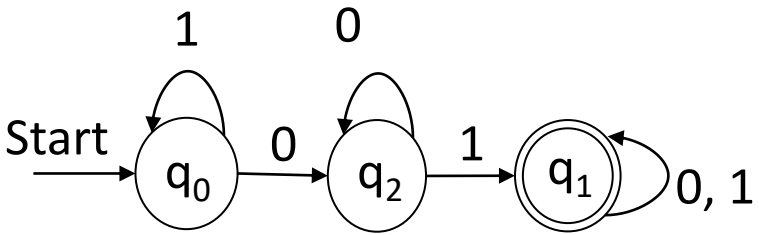
Theory of Computation

Recognition in DFAs

U.PORTO
FEUP FACULDADE DE ENGENHARIA UNIVERSIDADE DO PORTO
DEI DEPARTAMENTO DE ENGENHARIA INFORMÁTICA

DFA – Recognizer of the binary strings that contain the substring 01

- Input: 1011



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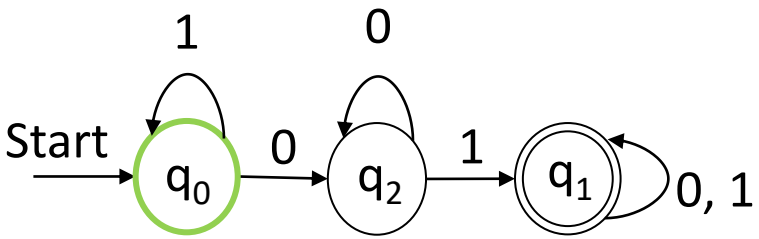
- Input: 1011



1 0 1 1

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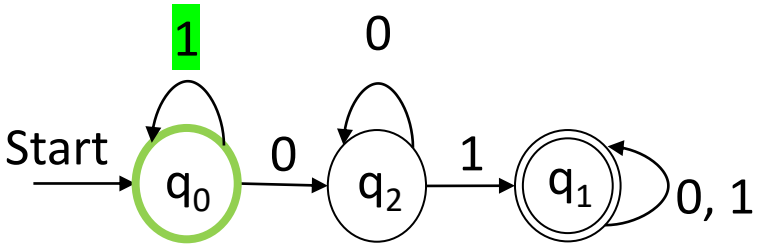
- Input: 1011



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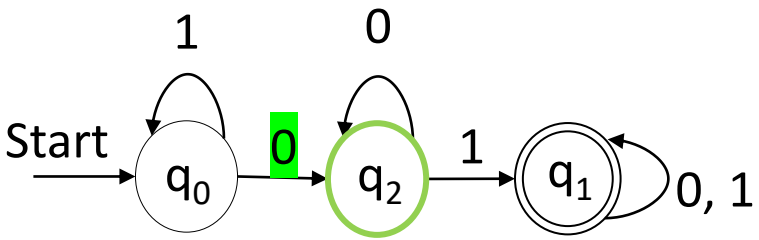
- Input: 1011



1 0 1 1

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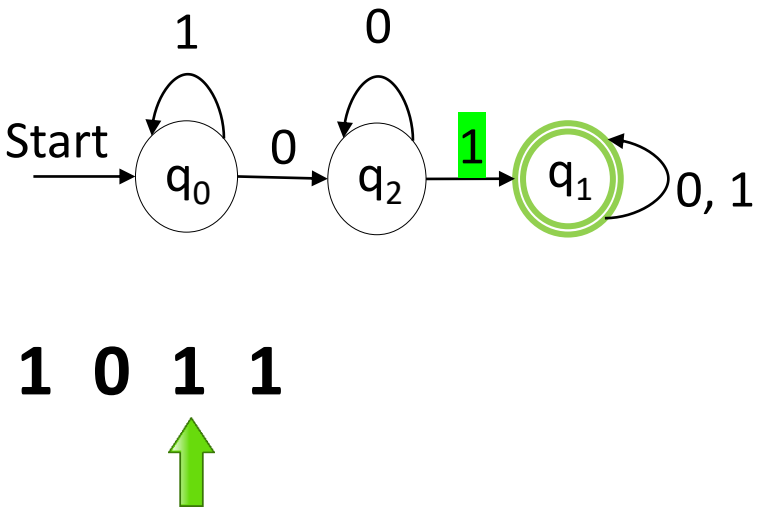
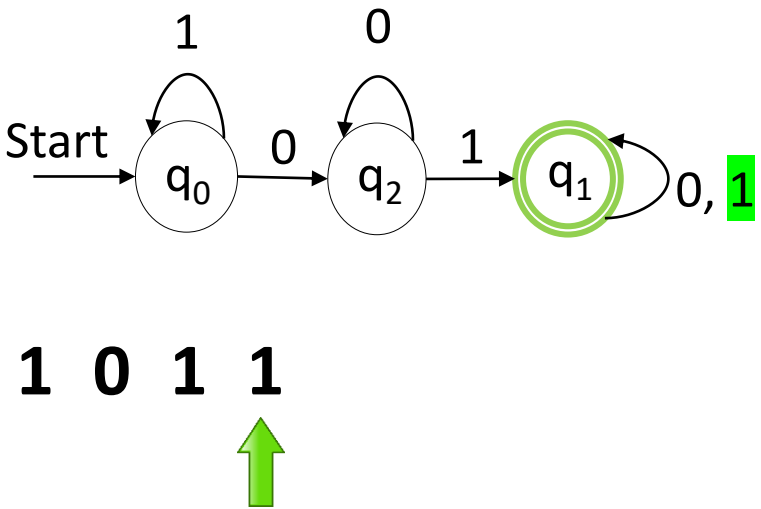
- Input: 1011



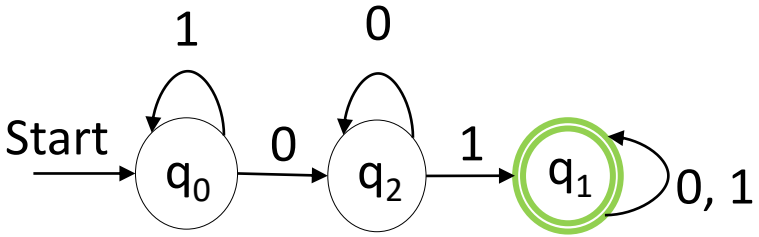
DFA – Recognizer of the binary strings that contain the substring 01

- Input: 1011



DFA – Recognizer of the binary strings that contain the substring 01

- Input: 1011

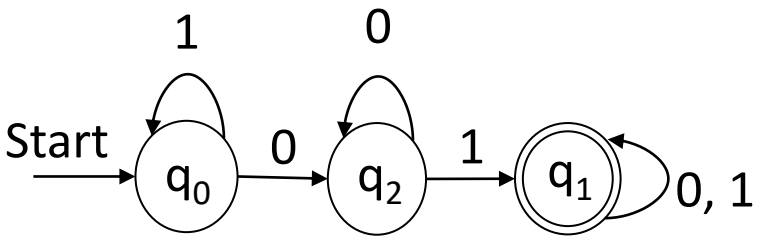


1 0 1 1

Input fully processed and DFA is in a final state ⟹ ACCEPT!

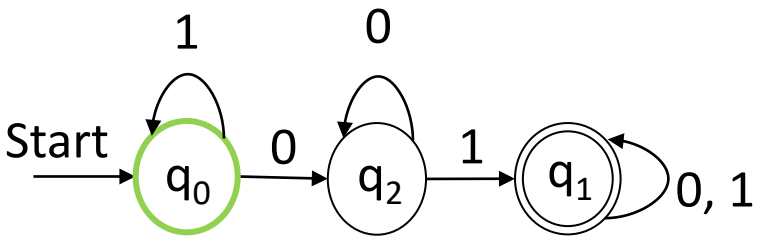
DFA – Recognizer of the binary strings that contain the substring 01

- Input: 10



DFA – Recognizer of the binary strings that contain the substring 01

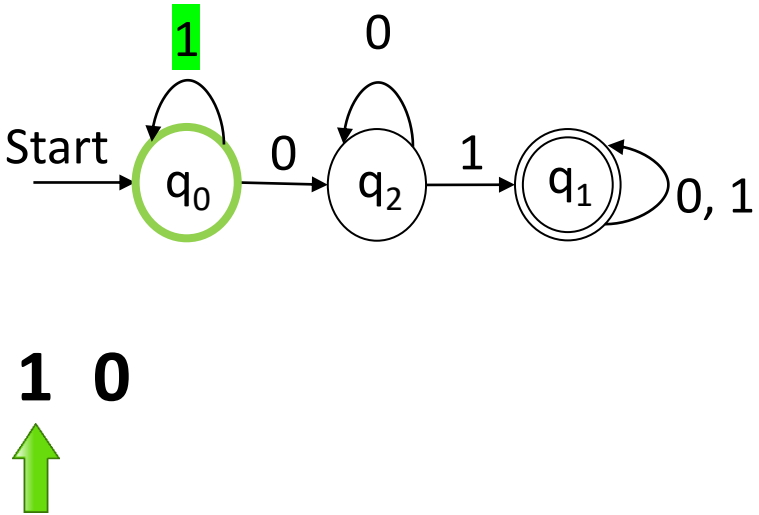
- Input: 10



1 0

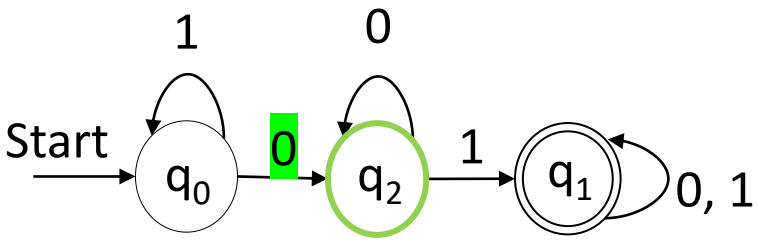
DFA – Recognizer of the binary strings that contain the substring 01

- Input: 10



DFA – Recognizer of the binary strings that contain the substring 01

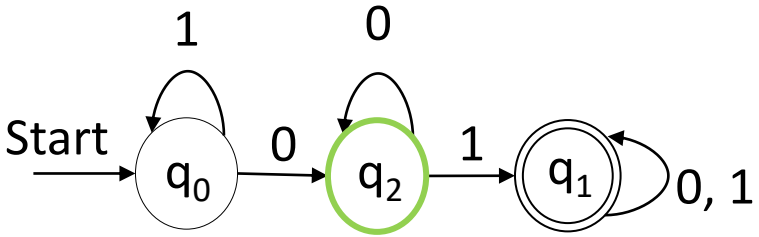
- Input: 11



1 0

DFA – Recognizer of the binary strings that contain the substring 01

- Input: 11



1 0

Input fully processed and DFA is not in a final state ⟹ REJECT