

CPSC 323 - Lecture

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September 17, 2020

Timestamps

09/17/2020 - 07:02:20 PM

Make sure to submit project by 09-29-2020 by **ALL** group members.

1 Converting NFA to DFA

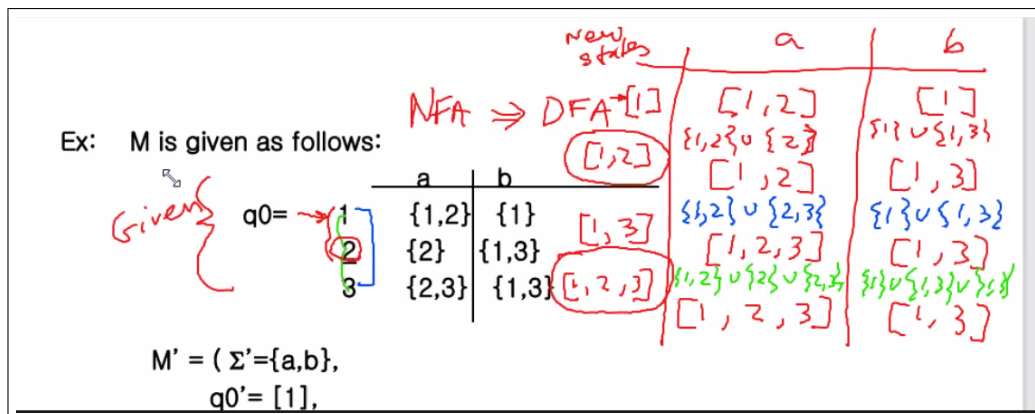


Figure 1: NFA to DFA Conversion

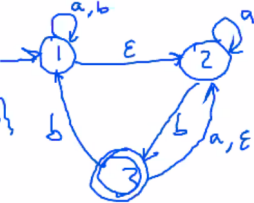
*Dedicated to @QuesoGrande a.k.a. Jared D.

Two differences from DFSA

1. Input is expanded by epsilon => can go to a different state without reading any input

2. Can go to multiple states given an input

$\epsilon\text{-closure}(1) = \{2\} \cup \{1\} = \{1,2\}$



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NFA w/ε ⇒ DFA

| | a | b | ε |
|----|---|---|---|
| →1 | 1 | 1 | 2 |
| 2 | 2 | 3 | - |
| ⓐ3 | 2 | 1 | 2 |

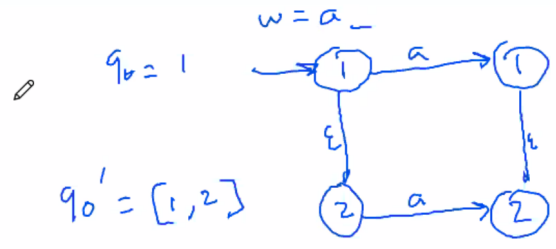


Figure 2: DFSA Differences