Sept 28

COMPSCI 3331

Fall 2022

What's next?

- Assignment 1: out now, due Oct 11.

NFA construction

Pattern Matching: all words over $\Sigma = \{a, b, c, ..., z\}$ that contain the subword “mike” somewhere..

$$L = \{w \in \Sigma^* \ : \ \exists u, v \in \Sigma^* \text{ such that } w = umikev\}$$

Subset Construction

- $M = (Q, \Sigma, \delta, q_0, F)$ be an NFA. $\delta : Q \times \Sigma \to 2^Q$.
- Define a DFA $M_D = (2^Q, \Sigma, \delta_D, q_D, F_D)$.
- $\delta_D(P, a) =$
- $q_D =$
- $F_D =$

Subset Construction Example