

May 18, 2010

Addition to slide 117 of lec09+10.pdf. Let NFA $A = (Q, \Sigma, d, Q_0, F)$ and NBA $A' = (Q', \Sigma, d', Q'_0, F')$. The set Q''_0 of initial states of the constructed NBA equals Q_0 if Q_0 contains no accept states in F , and equals Q_0 union Q'_0 otherwise. In addition, $F'' = F'$, and the transition function d'' is defined as:

$$\begin{aligned} d''(q, A) &= d(q, A) \quad \text{if } q \in Q \text{ and } d(q, A) \text{ contains no states in } F \\ &= d(q, A) \text{ union } Q'_0 \quad \text{if } q \in Q \text{ and } d(q, A) \text{ contains some states in } F \\ &= d'(q, A) \quad \text{if } q \in Q' \end{aligned}$$