Lecture #3: DFA Design and Verification — Part One Lecture Presentation

Problem To Be Solved

Let $\Sigma=\{{\tt a,b}\}$ and let $L\subseteq \Sigma^{\star}$ be the following language: $L=\{w\in \Sigma^{\star}\mid \omega \text{ ends with abb}\}.$

A First Attempt

What Must the DFA Remember?

Representation Using Subsets of Σ^{\star}

Initial Sanity Checks

Identifying Transitions

Getting Ready to Continue

What Went Wrong — Which Tradition was Not Well Defined? Why?