Goals

Understand NP Definition

NP Let $L \subseteq \{0,1\}^*$. Then $L \in NP$ if \exists a polynomial $p: N \to N$ and a polytime TM M s.t. \forall $x \in \{0,1\}^*$ \exists $u \in \{0,1\}^*$ s.t. M(x,u)=1. If $x \in L$, then \exists $u \in \{0,1\}^*$ P(n) s.t. M(x,u)=1 \Rightarrow If $x \notin L$, then \forall $u \in \{0,1\}^*$ P(n), M(x,u)=0