

2. Reduction (4 points)

Define the language

$$\text{Unique} = \{ \langle M \rangle, w \mid L(M) = \{w\} \text{ \& } M \text{ is a Turing Machine} \}.$$

1. Show that $\text{Member} \leq_m \text{Unique}$.

Use Unique as a subroutine to solve member
Since Unique is more complex or equally complex
to member.

Member

