Quiz 2

0. Your NAME:

1. Carefully state the **pumping lemma** for regular languages.

2. Give a decision procedure which, on input of a regular expression α, determines if $L(\alpha) = \{0, 1\}^*$.

3. (A) True/False: If L_1 is not regular and L_2 is regular, $L_1 \cup L_2$ is not regular.

   (B) True/False: If L_1 is not regular and L_2 is regular, $L_1 \cup L_2$ is regular.