

TOC-Quiz # 2 (Topics: Closure properties of regular languages, Pumping Lemma.)

1. Using pumping lemma show that following language is not regular:

$$\{w\bar{w} \mid w \in \{0, 1\}^+\}.$$

2. Prove or disprove the following statement:

If L_1 and L_2 are not regular then $L_1 \cup L_2$ is also not regular.