

CSCI 361: Exercise # 4

Your Name: _____

Due: Tuesday, Sept 18, in class

Assigned reading for this lecture:

- Myhill Nerode Handout and Ch 1.4 in Sipser

Question: Read the definition of indistinguishability with respect to a language L . Consider the language $L = (ab)^*$ and answer **True/False** to the following statements:

- Are the strings ϵ and ab distinguishable with respect to L ?
- Are the strings a and b distinguishable with respect to L ?
- Are the strings $abab$ and ab distinguishable with respect to L ?
- Are the strings b and bba distinguishable with respect to L ?