

### In-class Practice 8: Distinguishable Strings

1. Let  $L_1$  be the language of all binary strings that start with a 0 and end with a 1. Divide the following strings into equivalence classes with respect to  $L_1$ . That is, which pairs are distinguishable and which pairs are indistinguishable?

0      1      10      01      0110      010101

2. Same question, but with the language  $L_2$  of all binary strings with both an even number of 0s and an even number of 1s.
3. Same question, but with the language  $L_3$  of all binary palindromes.