

CS111 Introduction to Computer Science

Recitation 6

Exercise 1: Palindrome

A *palindrome* is a word that reads the same backwards or forwards. For example, the word “racecar” is a palindrome, but “revolver” is not. Write a Java program to determine whether a word is a palindrome.

Exercise 2: Anagram

An *anagram* is a rearrangement of the letters of a word to form a new word. For example, an anagram of “listen” is “silent”. Write a Java program to determine whether one word is an anagram of another.

Exercise 3: Longest subsequence

Assume that we have a string consisting only of letters. We want to find the longest subsequence where a single letter repeats. For example, in the string “abaabaccaabbbba”, the longest repeating subsequence is the four b's near the end. Write a Java program to find the longest repeating subsequence.