

CS160 Computer Science 1

Lab 9

Objectives

Work with Strings

Assignment

Today's In Class Lab is about asking the user to enter a string and printing whether it is palindrome or not.

Algorithm

Ask for a string. For each string entered state whether it is an odd palindrome, and even palindrome, or not a palindrome. Continue to ask for strings until the user enters an empty string.

One option that will let you work with the individual characters in a string is to use the square brackets [] to access individual characters. You can also use the for loop to iterate through the individual characters in a string. Regardless of the approach, you can then use those characters to build the reverse of the original string.

Then compare the original string with reversed string, print the reversed string and the result (whether it is palindrome or not). If it is a palindrome, it is an odd palindrome if there are an odd number of characters in the original string, otherwise it is an even palindrome.

```
Enter a String: radar
Reverse string: radar
It is an odd palindrome.
```

```
Enter a String: add
Reverse string: dda
It is not a palindrome.
```

```
Enter a String: 1221
Reverse string: 1221
It is an even palindrome.
```

```
Enter a String:
<<program ends>>
```