# Strings Examples

Based on examples by Eric Roberts and Patrick Young.

#### Checking for palindromes

```
public boolean isPalindrome(String str) {
   for(int i = 0; i < str.length() / 2; i++) {
      if (str.charAt(i) != str.charAt(str.length() - (i + 1))) {
        return false;
      }
   }
   return true;
}</pre>
```

### Reversing strings and a simpler version of checking for palindromes

```
public String reverseString(String str) {
   String result = "";
   for(int i = 0 ; i < str.length(); i++) {
      result = str.charAt(i) + result;
   }
   return result;
}

public boolean simpleIsPalindrome(String str) {
   return (str.equals(reverseString(str)));
}</pre>
```

#### **Counting uppercase characters**

```
import acm.program.*;

public class CountUppercase extends ConsoleProgram {

   private int countUppercase(String str) {
      int upperCount = 0;
      for(int i = 0; i < str.length(); i++) {
        char ch = str.charAt(i);
        if (Character.isUpperCase(ch)) {
            upperCount++;
        }
    }
   return upperCount;
}

public void run() {
   String str = readLine("Enter String: ");
   println(countUppercase(str) + " upper case letters");
   }
}</pre>
```

## Replace first occurrence