

Day 6: Let's Review | HackerRank

Terms you'll find helpful in completing today's challenge are outlined below, along with sample Java code (where appropriate).

Strings and Characters

As we've mentioned previously, a String is a sequence of characters. In the same way that words inside double quotes signify a String, a single letter inside single quotes signifies a character. Each character has an [ASCII](#) value associated with it, which is essentially a numeric identifier. The code below creates a char variable with the value `c`, and then prints its ASCII value.

```
char myChar = 'c'; // create char c
System.out.println("The ASCII value of " + myChar + " is: " + (int) myChar);
```

Output:

The ASCII value of c is: 99

Observe the `(int)` before the variable name in the code above. This is called *explicit casting*, which is a method of representing one thing as another. Putting a data type inside parentheses right before a variable is essentially saying: "The next thing after this should be represented as this data type". [Casting](#) only works for certain types of relationships, such as between primitives or [objects that inherit from another class](#).

To break a String down into its component characters, you can use the [String.toCharArray](#) method. For example, this code:

```
String myString = "This is String example.";
char[] myCharArray = myString.toCharArray();
for(int i = 0; i < myString.length(); i++){
    // Print each sequential character on the same line
    System.out.print(myCharArray[i]);
}
// Print a newline
System.out.println();
```

produces this output:

This is String example.

Notice that we were able to simulate printing `myString` by instead printing each individual character in the character array, `myCharArray`, created from `myString`.

[Solve Problem](#)