

Day 3: Reading String Class Documentation

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Oracle's website provides documentation about all of the classes that are built-in to the Java language. The following table contains a partial listing of the methods defined in the `String` class, as listed at <http://docs.oracle.com/javase/8/docs/api/java/lang/String.html>. Use this listing to answer the questions that follow.

Class String

Method Detail	
<code>boolean</code>	<code>endsWith(String suffix)</code> Tests if this string ends with the specified suffix
<code>int</code>	<code>indexOf(int ch)</code> Returns the index within this string of the first occurrence of the specified character
<code>int</code>	<code>indexOf(int ch, int fromIndex)</code> Returns the index within this string of the first occurrence of the specified character, starting the search at the specified index
<code>int</code>	<code>indexOf(String str)</code> Returns the index within this string of the first occurrence of the specified substring
<code>int</code>	<code>indexOf(String str, int fromIndex)</code> Returns the index within this string of the first occurrence of the specified substring, starting the search at the specified index
<code>String</code>	<code>replace(char oldChar, char newChar)</code> Returns a new string resulting from replacing all occurrences of <code>oldChar</code> in this string with <code>newChar</code>
<code>String</code>	<code>toUpperCase()</code> Converts all of the characters in this <code>String</code> to upper case using the rules of the default locale
<code>String</code>	<code>toUpperCase(Locale locale)</code> Converts all of the characters in this <code>String</code> to upper case using the rules of the given locale

1. What type of data does the `endsWith` method expect as a parameter?
2. What type of data is returned by the `endsWith` method?

3. Given this code:

```
1 | String word = new String( "Programming" );  
2 | boolean result;
```

Write a call to the `endsWith` method to determine if the string referred to by `word` ends with "ing". Store this answer in `result`.

4. How many different `indexOf` methods are there?
5. Which one allows the programmer to look for a string starting at a specified index?
6. How many parameters are specified for the `replace` method?
7. What is the data type of each parameter specified for the `replace` method?
8. What type of data is returned by the `replace` method?
9. Given this code:

```
1 | String phoneNumber = new String( "516-572-7383" );  
2 | String newPhoneNumber;
```

Write a call to the `replace` method that replaces all of the dashes with periods.

10. How many different `toUpperCase` methods are there?
11. How many parameters are specified for the first `toUpperCase` method listed?
12. Given this code:

```
1 | String word = new String( "Programming" );  
2 | String upperCaseWord;
```

Write a call to the first `toUpperCase` method to convert the word to all capital letters.