Week 3 Research

Select five methods from the String JavaDocs and describe the following for each: 1) what the method signature is, 2) what the method does, and 3) why would this method be useful (how could you use it)?

**String:**

1. startsWith(“What you are searching for”):

The user can check what character(s) a string starts with.

This can be useful if the user is looking for a sting that starts with a specific character for example if you have an array of strings and you want to find all the strings that start with ‘n’.

1. replace(‘T’, ‘L’):

Just like the name suggests replace is used when a character in a string needs to be replaced with another char.

1. stringName.toUpperCase():

Converts a string to all uppercase letters.

Used when it is desired that a string needs to be all uppercase.

1. stringName.trim():

Used to remove the white space from each end of a string.

Could be used when it is needed to have no whitespace in front or behind a string.

1. stringName.split():

Splits a string into an array.

Used when an array is desired instead of a String.

Source:

<https://www.w3schools.com/java/java_ref_string.asp>

Select five methods from the Array JavaDocs and describe the following for each: 1) what the method signature is, 2) what the method does, and 3) why would this method be useful (how could you use it)?

**Array:**

1. Arrays.toString(arrayName);

This method will change an array into a string.

Useful when you want to print out an array or when it is more desirable to have a string rather than an array.

1. Arrays.sort(arrayName):

Sorts an array from lowest to highest

Useful when an array needs to be so4rted also needs to be used when a binary search is going to be run

3.Arrays.binarySearch(arrayName, start, end, element):

An efficient algorithm to search through an array and return what index a value is at. Useful to let you know where a given value is in an array.

4.arrayName.length;

Returns the index amount of an array.

Used when it is necessary to know how long an array is. Often used to print out an array.

5.arrayName[index] = new value;

Inserts a new value to a specific index in an array.

What is your favorite thing you learned this week?