

1. Select **five** methods from the **String JavaDocs** and describe the following for each:

- a. What is the method signature?
 - i. charAt
 - ii. length
 - iii. trim
 - iv. toUpperCase
 - v. toLowerCase
- b. What does the method do?
 - i. Returns a character at a specified index
 - ii. Counts the number of characters
 - iii. Trims any white space.
 - iv. Changes all characters to a UPPER case
 - v. Changes all characters to a lower case
- c. Why would this method be useful (how could you use it)?
 - i. Could be used to return on the first character in an index such as first name initial.
 - ii. Could be used to ensure you have enough character space for values entered.
 - iii. Allows better control of space when using multiple outputs
 - iv. Ensures characters are all set to upper case to evaluate multiple data values without mismatching case.
 - v. Ensures characters are all set to lower case to evaluate multiple data values without mismatching case.

[Java String Reference \(w3schools.com\)](https://www.w3schools.com/java/strings_ref.asp)

2. Select **five** methods from the **Array JavaDocs** and describe the following for each:

I'm going to answer this best I can but the question is a little confusing as I don't see a JavaDocs for Array. Even found comments stack overflow saying it does not exists.

- a. What is the method signature?
 - i. void sort
 - ii. <T> void sort
 - iii. boolean equals
 - iv. void fill

- v. `int binarySearch`
- b. What does the method do?
 - i. Defines the type of parameter you can use.
- c. Why would this method be useful (how could you use it)?
 - i. Forces you to group methods by type which can help organize your code.
- 3. What is your favorite thing you learned this week?

Still working on my understanding of Methods but see an advantage on how this can be used.