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FW: Welcome to The Daily Byte!

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The Daily Byte

Hi there,

Welcome to The Daily Byte! Below is a taste of one of the many benefits a premium subscription gets you each week: a topic email. Within each topic email, we explain what the current week's topic is, how it can be leveraged, and why it's important for technical interviews. Going forward you'll receive one problem each day and we encourage you to do your best to solve it. Daily practice is important and doing a little bit each day helps to improve your progress over time. Without further ado, here's the info you should know about strings and we'll be sending you your first string problem at 9 AM ET.

Strings, What are they?

In programming, strings are data types that store sequences of characters. Depending on the language you're using, strings may or may not be immutable. In Java specifically, strings are immutable. This is to help ensure things like security, synchronization, and caching. Because strings are immutable, when you modify a string, it creates an entirely new string. This is important to know, especially during technical interviews, as repeatedly modifying a string could degrade your runtime. If you do need to constantly modify a string during an interview question, consider using a `StringBuilder`, which is mutable.

String Methods to Know for Interviews

Strings are arguably the most commonly used data type throughout programming, and as a result, will be used extensively during interviews. Whether the problem relates to strings directly and manipulating them, or you simply need to store intermediary information to solve the problem at hand, you should familiarize yourself with strings and their available methods. Some of the most common string methods you'll use during interviews are the following:

.toCharArray()

By invoking

`.toCharArray()` on a string, its character array representation will be returned. Converting a string to a character array can be helpful in scenarios where you need to modify characters within your string, for example swapping two characters.

```
String abc = "abc";
char[] characters = abc.toCharArray();
char temp = characters[0];
characters[0] = characters[2];
characters[2] = temp;
// prints "cba"
System.out.println(new String(characters));
```

.indexOf()

Invoking

`indexOf()` on a string and passing a character or a string as a parameter will return the index at which the specified character or string first occurs. This can be helpful in quickly determining whether or not a specific character or substring exists within the string in question. If the specified substring does not exist,

`.indexOf()` will return
-1 .

```
String computer = "computer";
// index will store 0
int index = computer.indexOf('c');

// index will store -1
index = computer.indexOf('a');

// index will store 3
index = computer.indexOf("puter");
```

.split()

Calling `split` returns a string array, splitting the string by the specified delimiter. For example, calling

`.split(" ")` will split the string by a space. The `split` method can be useful for problems where you're required to parse a string or larger text before solving the problem.

```
String name = "The Daily Byte"  
// words will contain ["The", "Daily", "Byte"]  
String[] words = name.split(" ");
```

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Thanks,
The Daily Byte

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