Intro to Java: String Class Practice

String Methods

```
String first = "Strings are my favorite!";
String second = "Few of my favorite things!";
```

Using the String declarations above, give the result of each of the following? **(1 pt each)**

1. `first.indexOf("string");`

   -1

2. `first.charAt(8);`

   "a"

3. `second.indexOf("f");`

   5

4. `second.substring(10);`

   "favorite things!"

5. `first.substring(3, 10);`

   "ings ar"

6. `first.substring(11).indexOf("fav");`

   4

7. `first.indexOf('a') + second.indexOf("my");`

   15

8. `first.charAt(10) == second.charAt(3);`

   false

9. `second.substring(6).toUpperCase().charAt(2);`

   "Y"

10. `first.charAt(0) + second.charAt(0);`

    99

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11. `first.charAt(0) + “” + second.charAt(0);`

"SF"

12. `second.indexOf(“are”);`

-1

13. `second.substring(10, 14).length();`

4

14. `second.substring(12, 19).indexOf(‘r’);`

2

Using the same strings, write the String method call that will return:

```
String first = “Strings are my favorite!”;
String second = “Few of my favorite things!”;
```

15. The index of the first time “favorite” occurs in first.

first.indexOf("favorite");

16. The substring “favorite” from second.

second.substring(10,18);

17. The positive difference between the lengths of Strings.

second.length()-first.length();

18. The character in the second string at the index where “my” appears in the first string.

second.charAt(first.indexOf("my"));

19. The second string in all capital letters.

second.toUpperCase();

20. The substring “are my favorite!” from the first string.

first.substring(8);

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String Methods

1. What is returned from each of the following given the following declarations?

```
String first = "AP Computer Science ";
String second = "Java rocks!";
```

a. `first + "and " + second;`

"AP Computer Science and Java rocks!"

b. `first.length();`

20

c. `second.toUpperCase();`

"JAVA ROCKS!"

d. `first.substring(0, 2) + second.substring(4);`

"AP rocks!"

e. `second.indexOf("Science");`

-1

f. `first.charAt(6) + "" + second.charAt(14);`

index error

g. `first.indexOf("put");`

6

h. `second.indexOf('a');`

1

i. `first.equals(second);`

false

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j. `first.equals(first.toLowerCase());`

false

k. `first.compareTo(second); //run it in a program and give the value`

-9

l. `second.compareTo(first.toLowerCase()); //run it in a program and give the value`

-23

Find the output of the following code segments.

(13 pts)

2.
```
String state = "Mississippi";
int len = state.length();
char ch = state.charAt(8);
String stub = "ssip";
int index1 = state.indexOf(stub);
int index2 = state.indexOf('s');
System.out.println("The length of " + state + " is " + len + "
characters");
System.out.println("The character at index 8 is " + ch);
System.out.println("The beginning index of " + stub + " is " + index1);
System.out.println("The first index value of s is "+ index2);
```

The length of Mississippi is 11 characters

The character at index 8 is p

The beginning index of ssip is 5

The first index value of s is 2

(4 pts)

3.
```
String state = "Washington";
String abbrev = state.substring(0,2);
System.out.println(abbrev.toUpperCase() + " ships "
              + state.substring(7) + "s of apples");
```

WA ships tons of apples

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(2 pts)

4.
```
String state = "California";
    if (state.equals(state.toLowerCase())){
      System.out.println("I guess caps don't really matter.");
  }else{
    System.out.println("Picky, picky!");

        }
          if (state.equalsIgnoreCase(state.toLowerCase())){
            System.out.println("That gives us some flexibility.");

        }else{

          System.out.println("Are you sure?");
        }
```

"Picky, picky!"

"That gives us some flexibility"