1 Strings

1. What is the value of **result** when the following code is executed?

```
String str = "Aloha";

int result = str.length()
```

```
Solution: 5
```

2. What is the value of result when the following code is executed?

```
String str = "Hola, Lamigo!";

char result = str.charAt(4);
```

```
Solution: , (comma)
```

3. What is the value of result when the following code is executed?

```
String str = "Hola, Lamigo!";
int result = str.indexOf('a');
```

```
Solution: 3
```

4. What is the value of **result** when the following code is executed?

```
String str = "Hola, Lamigo!";
int result = str.indexOf('A');
```

```
Solution: -1
```

5. What is the value of **result** when the following code is executed?

```
String str = "Hola, Lamigo!";
String result = str.substring(7, 10);
```

```
Solution: "mig"
```

6. What is the value of result when the following code is executed?

```
String str = "Yes_minister";
String result = 'S' + str.substring(5);
```

```
Solution: "Sinister"
```

7. What is the value of result when the following code is executed?

```
String str = "She_sells_sea_shells_on_the_sea_shore";
int result = 0;
for(int i = 0; i < str.length(); i++) {
        char ch = str.charAt(i);
        if(ch == 's') {
            result++;
        }
}</pre>
```

```
Solution: 7
```

8. Assuming String str contains at least one character, write a piece of code that assigns to an integer variable result, the number of digits in the String str. The expression to check whether a character ch is a digit or not is as follows,

```
boolean isDigit = false;
if(ch >= '0' && ch <= '9') {
    isDigit = true;
}</pre>
```

- 9. Assuming String str contains at least one character, write a piece of code that assigns to an integer variable result,
 - true, if str contains any spaces.

• false, otherwise

More efficient solution - as always in the case of *validation* algorithms, no need to check once a space has been found, so,

- 10. Assuming String str contains at least one character, write a piece of code that assigns to an integer variable result,
 - true, if str contains only spaces.
 - false, otherwise

Solution:

More efficient solution - as always in the case of *violation* algorithms, no need to check once a space has been found, so,