

# Quiz 1

1. what is the output of the following code?

```
public class PunchCard {
    public static void main(String[] args) {
        String original = "Java is great";
        String modified = "";

        for (int i = original.length() - 1; i >= 0; i--) {
            if (original.charAt(i) != ' ') {
                modified = original.charAt(i) + modified;
            } else {
                break;
            }
        }
        System.out.println(modified);
    }
}
```

- a) taerg si avaJ
- b) taerg
- c) JAVA IS GREAT
- d) great
- e) java

answer: d - great

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2. What is wrong with the following code?

```
public class PunchCard {
    public static void main(String[] args) {
        String input = "HeLLo WoRld 123";
        StringBuilder result = new StringBuilder();

        for (int i = 0; i <= input.length(); i++) {
            char currentChar = input.charAt(i);

            if (Character.isUpperCase(currentChar)) {
                result.append(Character.toLowerCase(currentChar));
            } else if (Character.isLowerCase(currentChar)) {
                result.append(Character.toUpperCase(currentChar));
            } else {
                result.append(currentChar);
            }
        }
        System.out.println("Converted string: " + result.toString());
    }
}
```

- a) The code will throw a compilation error due to an incorrect loop condition.
- b) The code will run indefinitely due to an incorrect loop condition.
- c) The code will not perform any case conversions due to incorrect if conditions.

- d) The code will throw an `IndexOutOfBoundsException` due to an incorrect loop condition.
- e) There is nothing wrong with the code.

*Answer:* d - The code will throw an `IndexOutOfBoundsException` due to an incorrect loop condition.)