

Explanation:

1. `input.chars()` converts the string to an `IntStream` of ASCII values.
2. `.mapToObj(c -> (char) c)` converts each ASCII value to its corresponding character.
3. `Collectors.groupingBy(Function.identity(), Collectors.counting())` groups by character and counts their occurrences.
4. Finally, we filter and print only the characters that appear more than once.

You said:



Give similar 5 programs that are most asked in interview related to counting of things in string or similar
Re write previous one also and make it 6th

ChatGPT said:



Memory updated

Here are 5 more Java 8 programs, commonly asked in interviews, related to counting in strings or similar tasks. The previous example (6th) is rewritten below as well.

1. Count the Number of Words in a String

This program counts the number of words in a given string.

```
java

import java.util.Arrays;

public class Main {
    public static void main(String[] args) {
        String input = "Java is great";

        long wordCount = Arrays.stream(input.split("\\s+"))
            .count();

        System.out.println("Number of words: " + wordCount);
    }
}
```

2. Count Occurrences of a Specific Character in a String

This program counts how many times a specific character appears in a string.

```
java

public class Main {
    public static void main(String[] args) {
        String input = "programming";
        char target = 'g';
```

```

        long count = input.chars()
            .filter(ch -> ch == target)
            .count();

        System.out.println("Occurrences of '" + target + "': " + count);
    }
}

```

3. Count the Number of Vowels in a String

This program counts the total number of vowels in a string.

```

java

import java.util.Set;
import java.util.stream.Collectors;

public class Main {
    public static void main(String[] args) {
        String input = "hello world";
        Set<Character> vowels = Set.of('a', 'e', 'i', 'o', 'u');

        long vowelCount = input.chars()
            .mapToObj(c -> (char) c)
            .filter(vowels::contains)
            .count();

        System.out.println("Number of vowels: " + vowelCount);
    }
}

```

4. Count Unique Characters in a String

This program counts the number of unique characters in a string.

```

java

import java.util.Set;
import java.util.stream.Collectors;

public class Main {
    public static void main(String[] args) {
        String input = "programming";

        long uniqueCount = input.chars()
            .mapToObj(c -> (char) c)
            .collect(Collectors.toSet())
            .size();

        System.out.println("Number of unique characters: " + uniqueCount);
    }
}

```

5. Count Frequency of Each Word in a String

This program counts how often each word appears in a string.

```
java
```

```
import java.util.Map;
import java.util.function.Function;
import java.util.stream.Collectors;

public class Main {
    public static void main(String[] args) {
        String input = "hello world hello";

        Map<String, Long> wordCountMap = Arrays.stream(input.split("\\s+"))
            .collect(Collectors.groupingBy(Function.identity(), Collectors.counting()));

        wordCountMap.forEach((word, count) -> System.out.println(word + ": " + count));
    }
}
```

6. Count Repeating Characters in a String

This is the previously provided program, which counts how many times each character repeats in a string.

```
java
```

```
import java.util.Map;
import java.util.function.Function;
import java.util.stream.Collectors;

public class Main {
    public static void main(String[] args) {
        String input = "programming";

        Map<Character, Long> characterCountMap = input.chars()
            .mapToObj(c -> (char) c)
            .collect(Collectors.groupingBy(Function.identity(), Collectors.counting()));

        characterCountMap.forEach((character, count) -> {
            if (count > 1) {
                System.out.println(character + ": " + count);
            }
        });
    }
}
```

ChatGPT can make mistakes. Check important info.