HowToDoInJava

Java Stream count() Matches with filter()

Last Updated: March 4, 2022 | By: Lokesh Gupta | Java 8 | Java Stream Basics, Java Stream Methods

Learn to **count the matching items in the Stream that are passed by a specified filter expression**. To count the items, we can use the following two methods and **both are terminal operations and will give the same result**.

- `Stream.count()`
- `Stream.collect(Collectors.counting())`

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1. Stream count() API

The `Stream` interface has a default method called `count()` that returns a `long` value indicating the number of matching items in the stream.

```
long count()
```

To use the *count()* method, call it on any *Stream* instance.

```
Stream s = ...;

s.count();
//or
s.collect(Collectors.counting());
```

2. Counting Matches in Stream

Example 1: Counting all items in the Stream

In this example, we are counting the number of elements in different kinds of streams such as `IntStream`, `LongStream`.

```
long count = Stream.of("how","to","do","in","java").count();    //5

long count = IntStream.of(1,2,3,4,5,6,7,8,9).count();   //9
```

Example 2: Counting items matching to Stream filter()

To count the matching items, we need to apply a filter expression or predicate to filter that will find the matching items and then we can use count() API to count the items.

In the given example, we are counting all the even numbers in the stream.

```
long count = LongStream.of(1,2,3,4,5,6,7,8,9)
            .filter(i -> i%2 == 0)
            .count();
            //or
            //.collect(Collectors.counting())
```

Happy Learning !!

Sourcecode on Github

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Recommended Reading:

1. Java Stream filter()
2. Java Stream – Find, Count and Remove Duplicates
3. Java CORS Filter Example
4. Securing REST APIs with RESTEasy Filter
5. Jersey Logging Request and Response Entities using Filter
6. JavaScript Array filter()
7. Java Stream reuse – traverse stream multiple times?
8. String indent(count) – Left indent lines in Java
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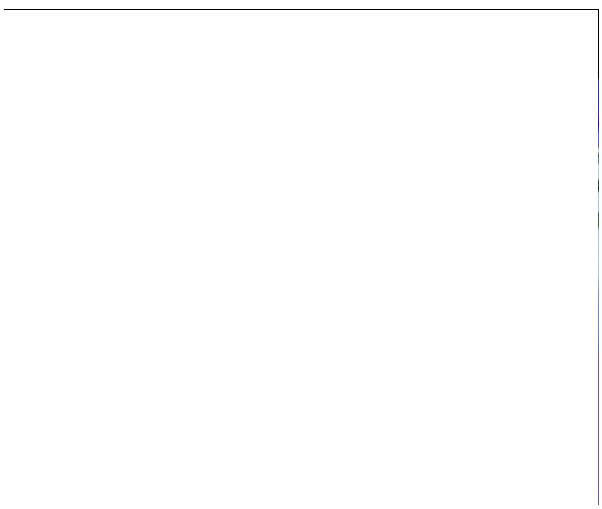

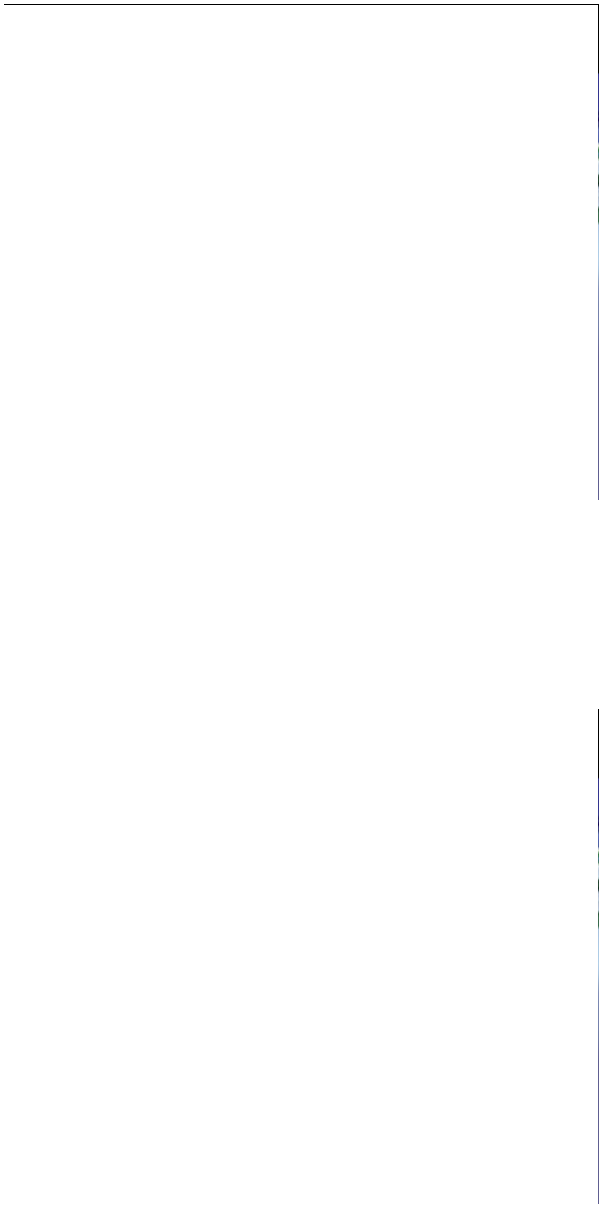

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