### **HowToDoInJava**

# **Negating a Predicate in Java**

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苗 Last Updated: March 4, 2022 🛛 By: Lokesh Gupta 👚 Java 8 🗬 Java Predicate, Java Stream Basics
```

Learn to create a Predicate with the negating effect that will match all the elements **not matching** the original predicate. The *negated predicate* acts as a *pass function* and selects all the elements from the stream that were filtered out by the original predicate.

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# 1. Predicate negate() Method

The Predicate.negate() method returns the logical negation of an existing predicate.

```
Predicate<Integer> isEven = i -> i % 2 == 0;
Predicate<Integer> isOdd = isEven.negate();
```

Use these predicates as follows with the Stream filter() method.

```
List<Integer> list = Arrays.asList(1, 2, 3, 4, 5, 6, 7, 8, 9, 10);
Predicate<Integer> isEven = i -> i % 2 == 0;
Predicate<Integer> isOdd = Predicate.not( isEven );
List<Integer> evenNumbers = list.stream()
    .filter(isEven)
    .collect(Collectors.toList());
List<Integer> oddNumbers = list.stream()
    .filter(isOdd)
    .collect(Collectors.toList());
```

# 2. Predicate not() Method - Java 11

In Java 11, **Predicate** class has a new method **not()**. It returns a *Predicate* that is the negation of the supplied predicate.

Internally, this is accomplished by returning the result of the calling predicate.negate().

```
Predicate<Integer> isEven = i -> i % 2 == 0;
Predicate<Integer> isOdd = Predicate.not( isEven );
```

Drop me your questions related to Java stream predicate negate examples.

Happy Learning!!

Sourcecode on Github

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# **Recommended Reading:**

- 1. Java Regex as Predicate using Pattern.compile() Method
- 2. Chaining Multiple Predicates in Java
- 3. Applying Multiple Conditions on Java Streams
- 4. Java Stream distinct()
- 5. Using 'if-else' Conditions with Java Streams
- 6. Java Stream sorted()
- 7. Java Stream peek()
- 8. Java Stream findFirst() vs findAny() API With Example
- 9. Sorting Streams in Java
- O. Java Stream Get Object with Max Date From a List



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