

Java Stream skip()



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Java
8



Java Stream Basics, Java Stream
Methods

Stream *skip(n)* method is used to **skip the first 'n' elements from the given Stream**.

The **skip()** method returns a new [Stream](#) consisting of the remaining elements of the original Stream, after the specified **n** elements have been discarded in the **encounter order**.

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1. Stream skip() Method

1.1. Method Syntax

Syntax

```
Stream<T> skip(long n)
```

The `n` is the number of leading elements to be discarded. It returns a new *Stream* consisting of elements picked from the original stream.

The method may throw **`IllegalArgumentException`** if `n` is negative.

1.2. Description

- **Stream `skip()`** method is **stateful intermediate operation**. Stateful operations, such as `distinct` and `sorted`, may incorporate state from previously seen elements when processing new elements.
- Returns a stream consisting of the remaining elements of the stream after discarding the first `n` elements of the stream.
- If the stream contains fewer than `n` elements then an empty stream will be returned.
- Generally `skip()` is a cheap operation, it can be quite expensive on ordered parallel pipelines, especially for large values of `n`.
- Using an unordered stream source (such as `generate(Supplier)`) or removing the ordering constraint with `BaseStream.unordered()` may result in significant speedups of `skip()` in parallel pipelines.
- `skip()` skips the first `n` elements in the encounter order.

2. Stream skip() Example

In this Java program, we are using the `skip()` method to skip the first 5 even numbers from an infinite stream of even numbers and then collect the next 10 even numbers into a new Stream.

Skip 5 and then collect 10 numbers

```
Stream<Integer> evenNumInfiniteStream = Stream.iterate(0, n -> n + 2)

List<Integer> newList = evenNumInfiniteStream
    .skip(5)
```

```
.limit(10)  
.collect(Collectors.toList());
```

```
System.out.println(newList);
```

Program output.

Console

```
[10, 12, 14, 16, 18, 20, 22, 24, 26, 28]
```

3. Conclusion

The Stream *skip()* method can be **useful in certain cases where we need to get the elements from a Stream but first, we need to skip a few elements from the Stream.**

The fact, that `skip()` returns the elements in the encounter order, makes it very useful for normal business usecases as well.

Happy Learning !!

[Sourcecode on Github](#)

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3. [Java Stream forEach\(\)](#)
4. [Java Stream sorted\(\)](#)
5. [Java Stream max\(\)](#)
6. [Java Stream min\(\)](#)
7. [Java Stream peek\(\)](#)
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