



Streams Intermediate Operations Examples

Compact Number Formatting

Remove duplicates from a Stream

```
List<Integer> n =
    1, 4, 5, 3, 501
// This will be
// numbers.add()
```

Filter elements

```
List<Integer> f
    .filter()
    .collect()
```

Transform by a

```
List<Integer> is
    .map(num
    .collect()
```

Sort elements a

```
List<Integer> is
    .sorted()
    .collect()
```



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Java Records

Records are primary persistent data.

Record classes are immutable by default: their state cannot be changed once they are created.

A Record case

```
public record Person(
    private String
)
```

A Record case

```
// Create List List <
record Person()

```



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Virtual Threads (1)

Virtual threads are lightweight threads that reduce the effort of writing, maintaining, and

Virtual Thread

Virtual Thread

Virtual Thread

Virtual Thread



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Lambda Expressions

Lambda expressions are a concise way to represent anonymous functions in Java.

They provide a shorthand notation for writing code by allowing the creation of small, inline implementations of functional interfaces.

Lambda expressions consist of parameters, an arrow token ($\rightarrow$), and a body.

```
// Ensures the interface can have just one method
@FunctionalInterface
interface SumFunction {
    int sum(int a, int b);
}

public class LambdaExample {

    public static void main(String[] args) {
        SumFunction sumFunction = (a, b) -> a + b;
        int result = sumFunction.sum(3, 3);
    }
}
```

Functional interfaces are Java interfaces that contain exactly one abstract method. They serve as the foundation for Lambda expressions.

The world before Lambda

This is the same example rewritten as a standard anonymous inner class:

```
interface SumFunction {
    int sum(int a, int b);
}

SumFunction sumFunction = new SumFunction() {
    @Override
    public int sum(int a, int b) {
        return a + b;
    }
};

int result = sumFunction.sum(3, 3);
```

All functional interfaces implement exactly one method, which allows for syntactic sugar to implement that one method with much less code.

```
() -> expression [ statement
param -> expression [ statement
(params) -> expression [ statement
(params) -> { expressions and statements }
(types) (params) -> { expressions and statements }
```

Java Eepocket Guide

Robert Liguori, Patricia Liguori



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