# Java functional programming

Github repo: <https://github.com/in28minutes/functional-programming-with-java>

## Method reference

A computer screen shot of a program code

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## .stream().filter

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## Lambda expressions

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## Streams

### reduce()

Performs an **accumulation operation** on all elements in the stream, reducing them to a single value.

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### distinct(), sorted()

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### collect()

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## Intermediate and terminal operations

### Intermediate

* Transform or filter the elements of a stream without producing a final result.
* They create a new stream based on the original one.
* i.e. filter(), sorted(), distinct(), map()

### Terminal

* Produce a final result from the elements in a stream.
* They consume the entire stream and do not return a new stream.
* i.e. forEach(), collect(), reduce()

## Behaviour parametrization

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## allMatch(), noneMatch(), anyMatch()

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## sorted()

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## limit()

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## skip()

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## takeWhile()

takeWhile is a method available in Java Streams that extracts elements from a stream until a certain condition is no longer met. It's like a filter, but it stops processing the stream the moment the first element doesn't satisfy the condition.

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## dropWhile()

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## max(), min()

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## findFirst()

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## findAny()

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## sum()

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## average()

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## count()

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## max()

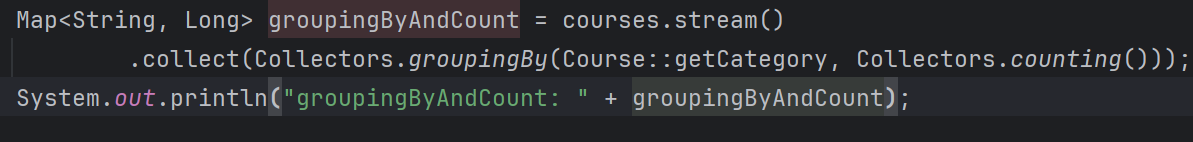
A screen shot of a computer

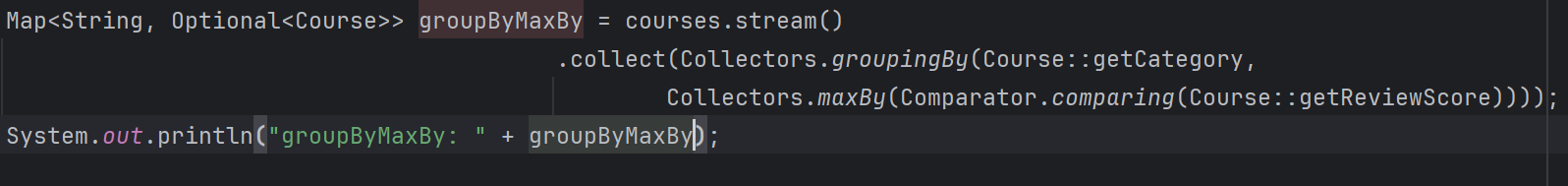
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## groupingBy()

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## Streams

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## Joining strings

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## flatmap()

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A computer screen shot of a program

Description automatically generated

## Higher order function

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## FP and performances

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### parallelization()

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## replaceAll()

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## removeIf()

