

Useful Functions and Concepts

joinToString()

```
val numbers = listOf(1, 2, 3, 4, 5, 6)
println(numbers.joinToString()) // 1, 2, 3, 4, 5, 6
println(numbers.joinToString(prefix = "[", postfix = "]")) // [1, 2, 3, 4, 5, 6]
println(numbers.joinToString(prefix = "<", postfix = ">", separator = "•")) // <1•2•3•4•5•6>
```

it

`{ it.toString() }` is a shorthand for `{ s -> s.toString() }`

.count

Returns the number of elements matching the given predicate.

```
fun numberOfVotesFor(day: Day): Int = votes.count { it == day }
```

mapNotNull()

Does a `map`, then filters out the nulls.

```
fun uppercaseAllNonNull(strings: List<String?>): List<String> =
    strings.mapNotNull { s -> s?.uppercase() }
```

filterNotNull()

Removes nulls.

```
val filterNotNull: List<StaffMember> = staff.filterNotNull()
```

`.average()`

Finds the average of a list of numbers.

```
return salaries.average()
```

`forEachLine`

Reads the file line by line.

```
File(filename).forEachLine { line ->
    println(line)
    lineCount += 1
}
```

`readlnOrNull()`

Reads a line of input from the standard input stream and returns it, or return `null` if EOF has already been reached when `readlnOrNull()` is called

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