

# Null Checks and Error Handling

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# Overview



Why null checks are bad?

Option as a better alternative

Error handling in imperative languages

Error handling with Try

Error handling with Either

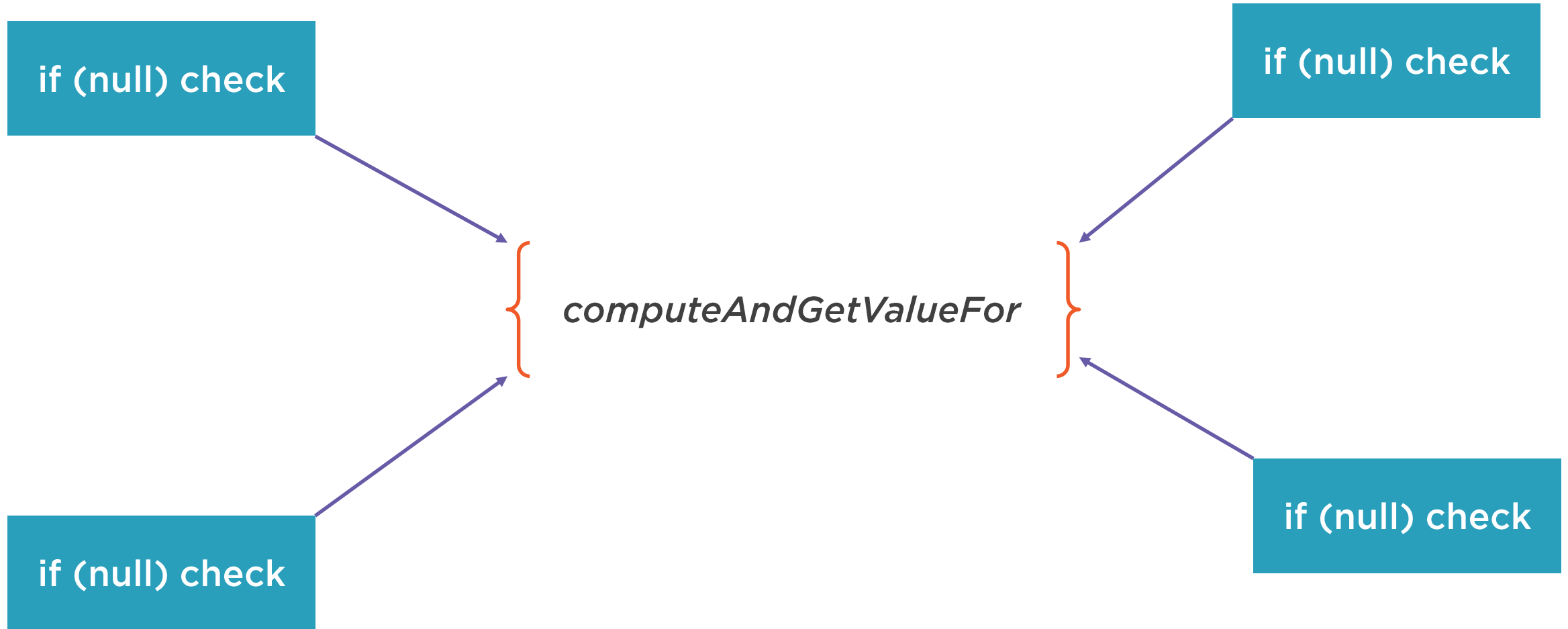


```
val valueFromComputation = computeAndGetValor(someInput)
if (valueFromComputation != null) {
    // do something with this value
}
```

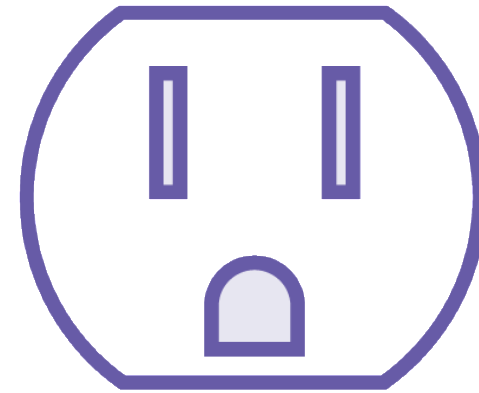
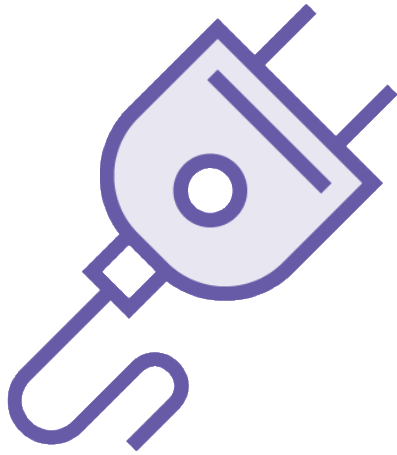
## Null Checks



# Callers making null checks



# Interface



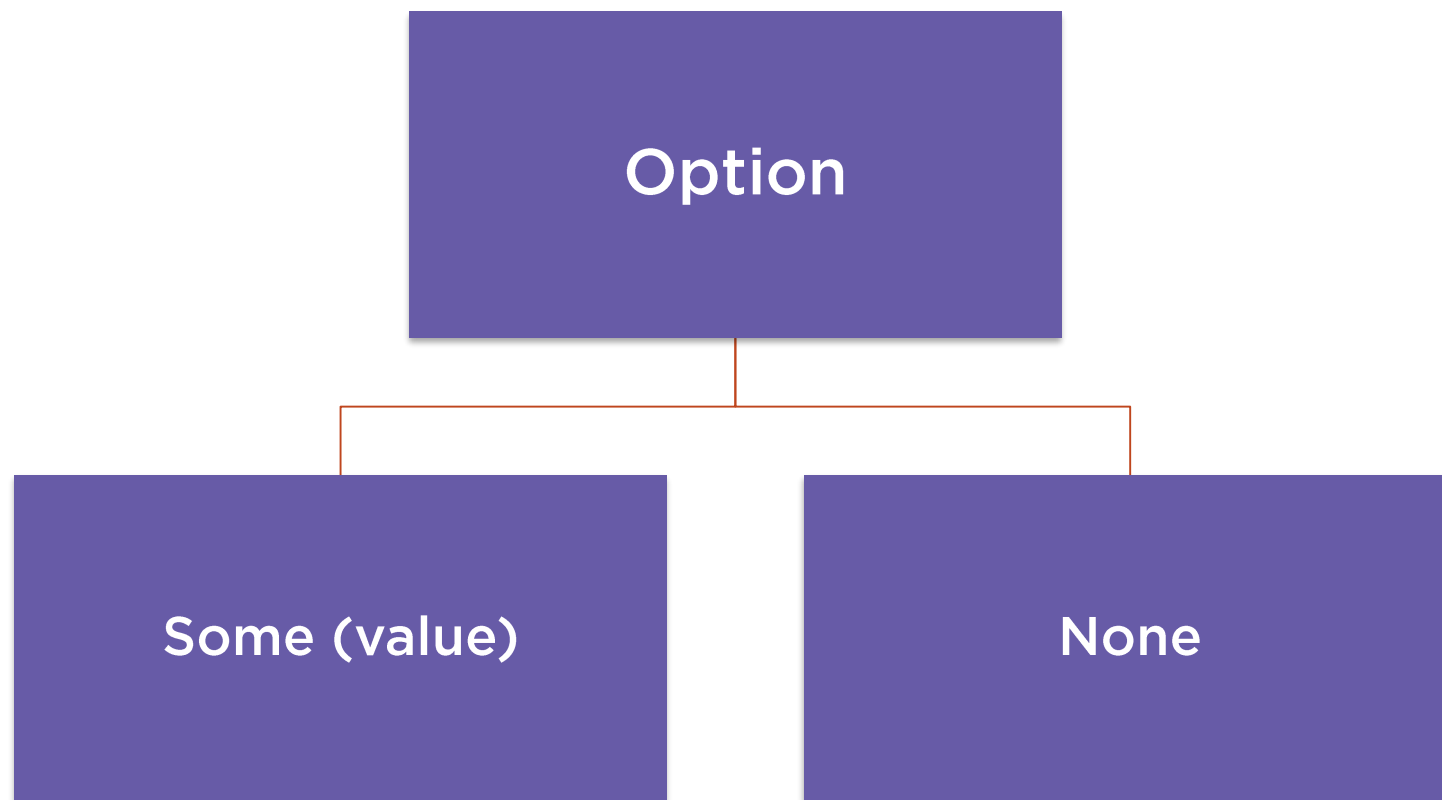
```
val employeeFromDatabase = getEmployeeByName(someName)
```

Find Employee by Name

**There may or may not be such an employee**



# Option



# Option example



Online delivery



Lost lottery ticket



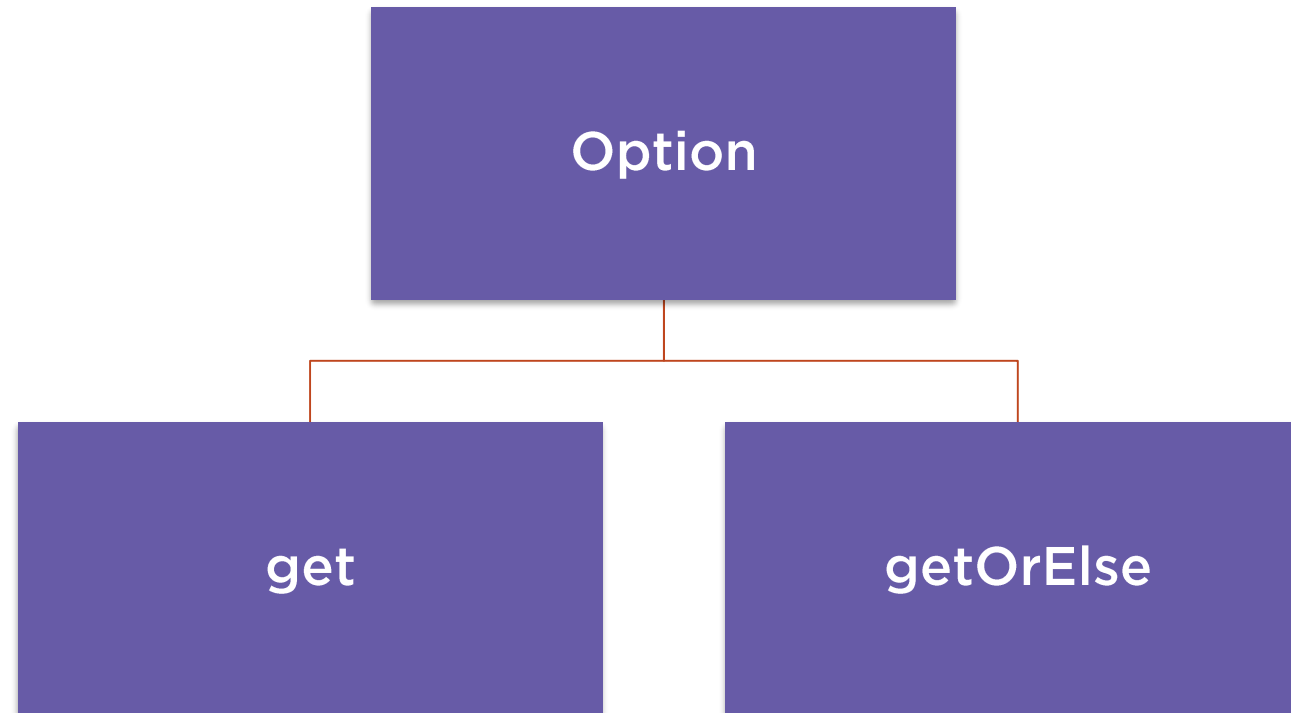
```
def find(p: (A) ⇒ Boolean): Option[A]
```

Set *find* method

**Clear interface**



# Reading value from an *Option*



# Errors and Exceptions



```
int value = 0;

try {

    value = numerator / denominator;

} catch (Exception e) {

    // do something with the exception

    // or re-throw the exception

} finally {

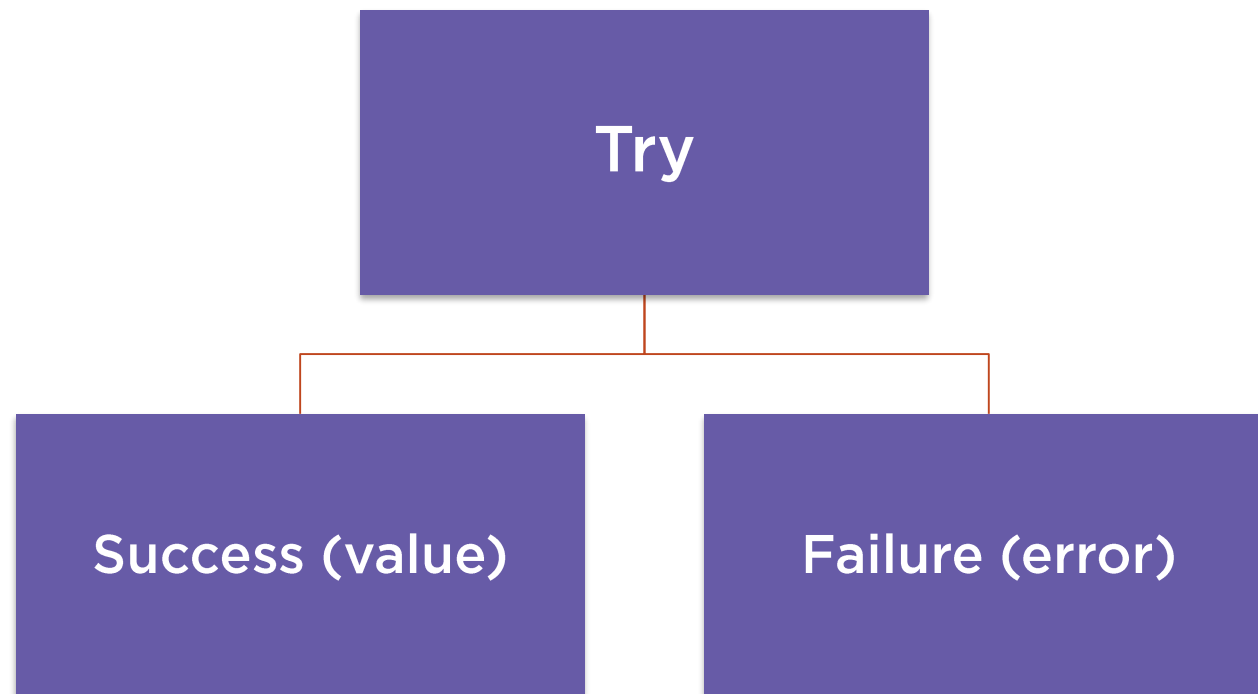
    // release resources that may leak memory

}
```

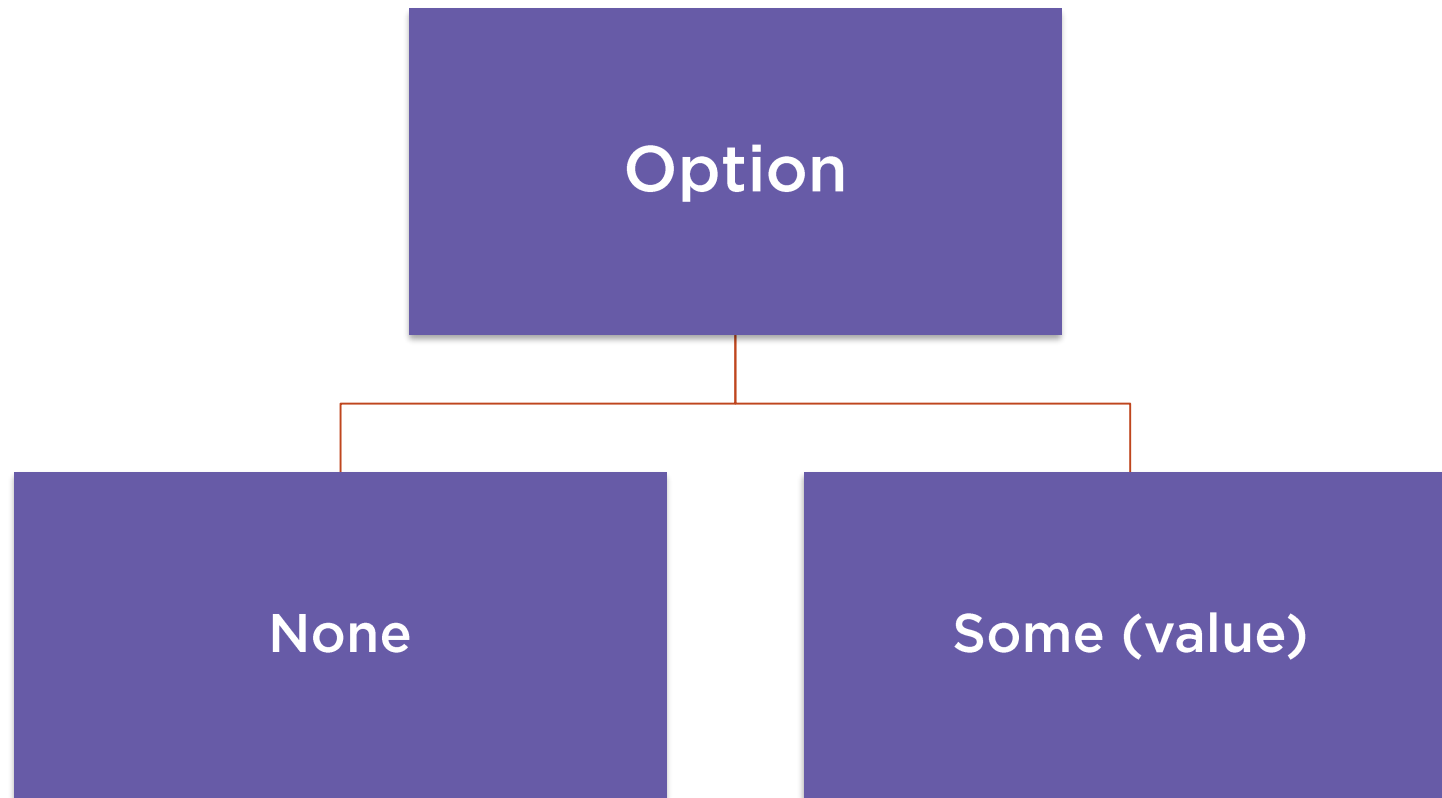
**Divide number by zero throws exception**



# Scala Try



# Option revisited



No way to return anything



# Scala Either

