

Immutability by Contract



















































































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[1, 2, 3, 4, 5]

 Try the same hack with List and Map. Observe the differences!

```
val immutable: Set<Int> = Set(1, 2, 3, 4)
```

val mutableSet<Int> = mutableSet

$$\text{mutable} + = 5$$

println(immutable)

Immutability by Contract

```
val immutable: Set<Int> = setOf(1, 2, 3, 4)
val mutable: MutableSet<Int> = immutable as MutableSet
mutable += 5
println(immutable) [1, 2, 3, 4, 5]
```

 Try the same hack with List and Map. Observe the differences!

Time Complexities Refresh

maximum number of operations that an algorithm may perform