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invariance





























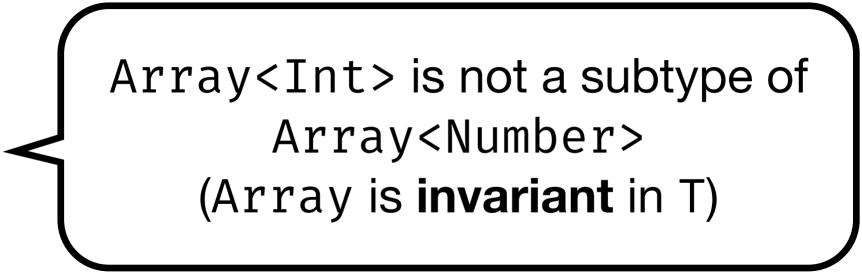








Type mismatch. Required: Array<Number> Found: Array<Int>































































































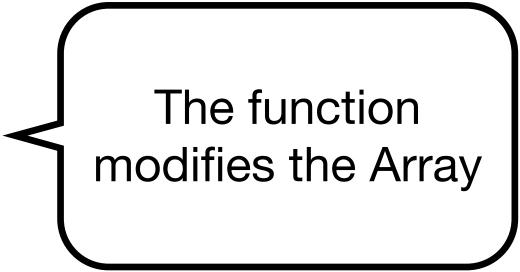








[0.0, 0.0, 0.0, 0.0]



```
fun zeroOut(ns: Array<Number>) {
    for (i in ns.indices) {
        ns[i] = 0.0
```

```
val ns: Array<Int> = arrayOf(1, 2, 3, 4)
zeroOut(ns)
```

public class Array<T>

Generics

invariance

```
public class Array<T>
fun zeroOut(ns: Array<Number>) {
                                           The function
    for (i in ns.indices) {
                                        modifies the Array
         ns[i] = 0.0
val ns: Array<Int> = array0f(1, 2, 3, 4)
zeroOut(ns) [0.0, 0.0, 0.0, 0.0]
                                    Array<Int> is not a subtype of
                                          Array<Number>
         Type mismatch.
         Required: Array<Number>
                                        (Array is invariant in T)
        Found: Array<Int>
```

Genericsuse site variance / projections

public class Array<T>