



J2K: Collections

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Collections



Collection examples: Java & Kotlin equivalents

Java

```
final List<Integer> listOfNumber = Arrays.asList(1, 2, 3, 4);

final Map<Integer, String> keyValue = new HashMap<Integer, String>();
map.put(1, "Amit");
map.put(2, "Ali");
map.put(3, "Mindorks");
```

Kotlin

```
val listOfNumber = listOf(1, 2, 3, 4)
val keyValue = mapOf(1 to "Amit",
                    2 to "Ali",
                    3 to "Mindorks")
```

Java

```
final List<Integer> listOfNumber = Arrays.asList(1, 2, 3, 4);

final Map<Integer, String> keyValue = new HashMap<Integer, String>();
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Kotlin

```
val listOfNumber = listOf(1, 2, 3, 4)
val keyValue = mapOf(1 to "Amit",
                    2 to "Ali",
                    3 to "Mindorks")
```

Java

```
// Java 7 and below
for (Car car : cars) {
    System.out.println(car.speed);
}

// Java 8+
cars.forEach(car -> System.out.println(car.speed));

// Java 7 and below
for (Car car : cars) {
    if (car.speed > 100) {
        System.out.println(car.speed);
    }
}

// Java 8+
cars.stream().filter(car -> car.speed > 100).forEach(car -> System.out.println(car.speed));
```

Kotlin

```
cars.forEach {  
    println(it.speed)  
}  
  
cars.filter { it.speed > 100 }  
    .forEach { println(it.speed)}  
  
// kotlin 1.1+  
cars.stream().filter { it.speed > 100 }.forEach { println(it.speed)}  
cars.parallelStream().filter { it.speed > 100 }.forEach { println(it.speed)}
```

Java

```
// Java 7 and below
for (Car car : cars) {
    System.out.println(car.speed);
}

// Java 8+
cars.forEach(car -> System.out.println(car.speed));

// Java 7 and below
for (Car car : cars) {
    if (car.speed > 100) {
        System.out.println(car.speed);
    }
}

// Java 8+
cars.stream().filter(car -> car.speed > 100).forEach(car -> System.out.println(car.speed));
```

Kotlin

```
cars.forEach {
    println(it.speed)
}

cars.filter { it.speed > 100 }
    .forEach { println(it.speed)}

// kotlin 1.1+
cars.stream().filter { it.speed > 100 }.forEach { println(it.speed)}
cars.parallelStream().filter { it.speed > 100 }.forEach { println(it.speed)}
```