


More Kotlin fundamentals

Let's do a quick test! You must answer at least 7 questions correctly to pass this quiz.

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1. Which of the following is a valid way to define a data class in Kotlin?

☒ `data class Person(val name: String, val age: Int)`  Correct!

☐ `class Person(val name: String, val age: Int): data`

☐ `class Person(val name: String, val age: Int)`

☐ `data class Person{val name: String, val age: Int}`

2. When using a sealed class, all direct subclasses must be in the same package.

☒ true  Correct!

☐ false

3. When using generics, the generic data type goes inside ____.

☐ `[]`

☐ `{}`

☐ `()`

☒ `<>`  Correct!

4. A(n) ____ class is useful when you have a fixed set of values.

☒ enum  Correct!

☐ sealed

☐ data

☐ inherited

5. To create a list object that has the ability to change its size, you would call ____.

☐ `modifiableListOf()`

☐ `immutableListOf()`

☐ `listOf()`

☒ `mutableListOf()` ☒ Correct!

6. Which of the following are higher-order functions?

Choose as many answers as you see fit.

☒ `map` ☒ Correct!

☐ `arrangeBy`

☒ `filter` ☒ Correct!

☒ `forEach` ☒ Correct!

7. Given the following line of code, which of the following commands will print `Blue`? (Hint: If you are not sure, try running the code in the Kotlin Playground.)

```
val colors = listOf("Red", "Green", "Blue")
```

Choose as many answers as you see fit.

☒ `println(colors[2])` ☒ Correct!

☒ `println(colors.get(2))` ☒ Correct!

☐ `println(colors.contains(2))`

☐ `println(colors.getOrElse(index = 2, defaultValue = 10))`

8. The programming concept of a class that has only one instance is called a ____.

☐ Uniqueness

☒ Singleton ☒ Correct!

☐ Mono-object

☐ Lambda

9. Which of the following statements is true regarding sets and maps?

☒ A set must contain distinct values and a map's keys must be distinct. ☒ Correct!

☐ A set must contain distinct values and a map's keys can contain duplicates.

☐ A set can contain duplicate values and a map's values can contain duplicate values.

☐ A set can contain duplicate values and a map's keys must be distinct.

10. If you have a variable named `records`, which is a collection, to determine the number of items it contains, you can call ____.

☐ `records.length`

- ☐ `records.quantity`
- ☐ `len(records)`
- ☒ `records.size` ☒ Correct!

Results

You scored **10 out of 10**. Congratulations! You have passed this quiz.

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