

## Задача\_1

```
fun main() {  
    val myList: MutableList<String> = mutableListOf()  
  
    myList.add("Элемент 1")  
    myList.add("Элемент 2")  
    myList.add("Элемент 3")  
    myList.add("Элемент 4")  
    myList.add("Элемент 5")  
  
    println(myList)  
}
```

Решение

[1, 4, 9, 16, 25]

Process finished with exit code 0

## Задача\_2

```
fun main() {  
    val stringList = listOf("apple", "banana", "orange", "grape")  
  
    val valueToCheck = "banana"  
  
    if (valueToCheck in stringList) {  
        println("$valueToCheck содержится в списке.")  
    } else {  
        println("$valueToCheck не содержится в списке.")  
    }  
}
```

решение

banana содержится в списке.

Process finished with exit code 0

### Задача\_3

```
fun main() {  
    val numbers: List<Int> = listOf(1, 2, 3, 4, 5)  
  
    for (number in numbers) {  
        println(number)  
    }  
}
```

решение

1

2

3

4

5

Process finished with exit code 0

### Задача\_4

```
fun main() {  
    val numbers = listOf(5, 2, 9, 1, 5, 6)  
  
    val sortedNumbers = numbers.sorted()  
  
    println(sortedNumbers)  
}
```

решение

[1, 2, 5, 5, 6, 9]

Process finished with exit code 0

### Задача\_5

```
fun main() {  
    val originalList = listOf(1, 2, 3, 4, 5, 6, 7, 8, 9, 10)  
  
    val evenNumbersList = originalList.filter { it % 2 == 0 }  
  
    println(evenNumbersList)  
}
```

решение

[2, 4, 6, 8, 10]

Process finished with exit code 0

### Задача\_6

```
fun main() {  
    val strings = listOf("apple", "banana", "avocado", "blueberry", "cherry",  
        "apricot")  
  
    val letter = 'a'  
  
    val count = strings.count { it.startsWith(letter, ignoreCase = true) }  
  
    println("Количество строк, начинающихся с '$letter': $count")  
}
```

решение

Количество строк, начинающихся с 'a': 3

Process finished with exit code 0

### Задача\_7

```
fun main() {  
    val numbers = listOf(5, -3, 2, -8, 0, 7)  
  
    val modifiedNumbers = numbers.map { if (it > 0) -it else it }  
  
    println(modifiedNumbers) // [-5, -3, -2, -8, 0, -7]  
}
```

решение

[-5, -3, -2, -8, 0, -7]

Process finished with exit code 0

### Задача\_8

```
fun main() {  
    val numbers = listOf(1, 2, 3, 4, 5)  
  
    val squares = numbers.map { it * it }  
  
    println(squares) // Вывод: [1, 4, 9, 16, 25]  
}
```

решение

[1, 4, 9, 16, 25]

Process finished with exit code 0