```
val array = intArrayOf(1, 2, 3, 4, 5)
val array1 = intArray0f(1, 2, 3, 4, 5)
val array2 = intArrayOf(5, 3, 8, 1, 4, 10, 6, 2, 9, 7)
println("Минимальное значение: $min")
val array3 = intArray0f(5, 3, 8, 1, 4)
val array4 = intArray0f(1, 2, 2, 3, 4, 4, 5)
val uniqueElements = array4.distinct()
val evenNumbers = array5.filter { it % 2 == 0 }
val oddNumbers = array5.filter { it % 2 != 0 }
val array6 = intArray0f(1, 2, 3, 4, 5)
val reversedArray = array6.reversedArray()
```

```
val array7 = intArray0f(1, 2, 3, 4, 5)
val originalArray = intArrayOf(1, 2, 3)
val copiedArray = originalArray.copyOf()
println("Скопированный массив: ${copiedArray.joinToString(", ")}")
val array8 = intArrayOf(1, 2, 3, 4, 5)
val sumOfEvens = array8.filter { it % 2 == 0 }.sum()
val array9 = intArray0f(1, 2, 3, 4)
val array10 = intArray0f(3, 4, 5, 6)
val intersection = array9.intersect(array10.toSet())
val temp = array11[index1]
array11[index2] = temp
val array12 = intArray0f(1, 2, 3)
```

```
val divisibleByThree = array14.filter { it % 3 == 0 }
${divisibleByThree.joinToString(", ")}")
fun isPalindrome(array15: IntArray): Boolean {
   val array15 = intArray0f(1, 2, 3, 2, 1)
   val array16 = intArray0f(1, 2)
    val array17 = intArrayOf(3, 4)
    val concatenatedArray = array16 + array17
    val array18 = intArray0f(1, 2, 3)
    val sum = array18.sum()
    val array19 = intArray0f(1, 2, 3, 4, 5, 6, 7, 8, 9, 10)
           array19.slice(i until array19.size)
    val mergedArray = IntArray(array1.size + array2.size)
```

```
if (array20[i] < array21[j]) {</pre>
           mergedArray[k++] = array20[i++]
            mergedArray[k++] = array21[j++]
       mergedArray[k++] = array20[i++]
       mergedArray[k++] = array21[j++]
   return mergedArray
   val sortedArray20 = intArray0f(1, 3, 5)
   val sortedArray21 = intArray0f(2, 4, 6)
   val mergedSortedArray = mergeSortedArrays(sortedArray20, sortedArray21)
${mergedSortedArray.joinToString(", ")}")
//\mid 20. Числовая последовательность (арифметическая прогрессия)
${arithmeticProgression.joinToString(", ")}")
       return array22.filter { it != element }.toIntArray()
   val arrayWithElement = intArrayOf(1, 2, 3, 4, 5)
   val updatedArray = removeElement(arrayWithElement, 3)
   println("Массив после удаления элемента: ${updatedArray.joinToString(",
    fun findSecondMaximum(array23: IntArray): Int? {
       val uniqueElements = array23.distinct().sortedDescending()
        return if (uniqueElements.size < 2) null else uniqueElements[1]
   val numbers = intArrayOf(5, 3, 8, 1, 4)
```

```
val secondMax = findSecondMaximum(numbers)
println("Второй по величине элемент: $secondMax")
fun mergeArrays(vararg arrays: IntArray): IntArray {
    val totalLength = arrays.sumOf { it.size }
    val mergedArray = IntArray(totalLength)
    var currentIndex = 0
    for (array24 in arrays) {
        for (element in array24) {
            mergedArray[currentIndex] = element
    return mergedArray
val array25 = intArray0f(1, 2, 3)
val array26 = intArrayOf(4, 5)
val array27 = intArray0f(6, 7, 8)
val mergedArray = mergeArrays(array25, array26, array27)
println("Объединенный массив: ${mergedArray.joinToString(", ")}")
val matrix = arrayOf(
    intArrayOf(7, 8, 9)
val transposedMatrix = Array(matrix[0].size) { IntArray(matrix.size) }
       transposedMatrix[j][i] = matrix[i][j]
transposedMatrix.forEach { println(it.joinToString(", ")) }
fun linearSearch(array28: IntArray, target: Int): Boolean {
       if (element == target) return true
val searchArray = intArrayOf(1, 2, 3, 4, 5)
```

```
val found = linearSearch(searchArray, 3)
    val numbersForAverage = intArrayOf(1, 2, 3, 4, 5)
   val average = numbersForAverage.average()
       var currentCount = 1
            if (array29[i] == array29[i - 1]) {
               maxCount = maxOf(maxCount, currentCount)
                currentCount = 1
       maxCount = maxOf(maxCount, currentCount)
        return maxCount to array29.size // Возвращаем максимальную длину
   val maxSeq = maxSequence(sequenceArray)
${maxSeq.first}")
   println("Введенный массив: ${userInputArray.joinToString(", ")}")
        val sortedArray = array30.sorted()
            (sortedArray[size / 2 - 1] + sortedArray[size / 2]) / 2.0
           sortedArray[size / 2].toDouble()
```

```
//30. Распределение по группам

val groupSize = 10
val totalNumbers = 100
val randomNumbers = IntArray(totalNumbers) { (1..100).random() }

for (i in randomNumbers.indices step groupSize) {
 val group = randomNumbers.slice(i until minOf(i + groupSize,
randomNumbers.size))
 println("Группа ${i / groupSize + 1}: ${group.joinToString(", ")}")
}
```