```
val number = readLine()?.toIntOrNull() ?: return
var factorial = 1
for (i in 1..number) {
    factorial *= i
val primeCandidate = readLine()?.toIntOrNull() ?: return
val isPrime = (2 until primeCandidate).none { primeCandidate % it == 0 }
val fibCount = readLine()?.toIntOrNull() ?: return
```

```
// 9. Обратный порядок строки
   val inputString = readLine() ?: return
   val inputNumber = readLine()?.toIntOrNull() ?: return
val digitSum = inputNumber.toString().map { it.toString().toInt() }.sum()
   println("Сумма цифр числа $inputNumber: $digitSum")
   val str1 = readLine() ?: return
   val step = readLine()?.toIntOrNull() ?: return
   for (i in startNum..startNum + step * 10 step step) {
       println("$i^2 = ${i * i}")
   repeat(10) {
        println((Math.random()*101).toInt())
   val palindromeString = readLine() ?: return
       isPalindrome = palindromeString == palindromeString.reversed()
"$palindromeString - не палиндром")
   val sumOfSquares = (1..nForSquares).sumOf { it * it }
   println("Сумма квадратов от 1 до $nForSquares: $sumOfSquares")
```

```
val twoDigitNumbers = mutableListOf(34, 12, 45, 23, 56, 78, 11, 90)
    for (j in i + 1 until twoDigitNumbers.size) {
        if (twoDigitNumbers[i] > twoDigitNumbers[j]) {
println("Отсортированный список двухзначных чисел: $twoDigitNumbers")
val startRange = readLine()?.toIntOrNull() ?: return
val endRange = readLine()?.toIntOrNull() ?: return
for (num in startRange..endRange) {
    if (num > 1 && (2 until num).none { num % it == 0 }) {
       print("$num ")
val yearInput = readLine()?.toIntOrNull() ?: return
val monthInput = readLine()?.toIntOrNull() ?: return
val daysInMonth = when(monthInput) {
    2 -> if ((yearInput % 4 == 0 && yearInput % 100 != 0) || (yearInput %
    else -> throw IllegalArgumentException("Некорректный месяц")
for(day in 1..daysInMonth) {
   println("$day/$monthInput/$yearInput")
    guess = readLine()?.toIntOrNull()
} while (quess != randomNum)
var operation: String?
   operation = readLine()
```

```
if(operation != "cπoπ") {
        val parts = operation?.split(" ")?.map { it.toDouble() }
        if(parts?.size == 2) {
} while (operation != "cπoπ")
   arrayOf(1,2,3),
   arrayOf(4,5,6),
   arrayOf(7,8,9)
val transposedMatrix = Array(matrix[0].size) { IntArray(matrix.size) }
        transposedMatrix[j][i] = matrix[i][j]
for(row in transposedMatrix) {
var evenSum = 0
for(i in 1..nForSumEvenOdd) {
    else oddSum += i
val nForPyramid = readLine()?.toIntOrNull() ?: return
for(i in 1..nForPyramid) {
   repeat(nForPyramid - i) { print(" ") }
   repeat(i) { print("$i ") }
repeat(countForSorting) {
   println("Введите число ${it + 1}:")
   numbersToSort.add(readLine()?.toIntOrNull() ?: return)
numbersToSort.sort()
```

```
//29. Сумма ряда
println("Введите N для нахождения суммы ряда:")
val nForSeriesSum = readLine()?.toIntOrNull() ?: return
var seriesSum = (1..nForSeriesSum).sumOf { 1.0 / it }
println("Сумма ряда от 1 до $nForSeriesSum: $seriesSum")

//30. Конвертация в двоичную систему
println("Введите целое число для конвертации в двоичную систему:")
val numberToConvert = readLine()?.toIntOrNull() ?: return
val binaryRepresentation = numberToConvert.toString(2)
println("Двоичное представление числа $numberToConvert:
$binaryRepresentation")
}
```