```
fun sumList(list: List<Int>): Int = list.sum() new*
fun diffMaxMin(list: List<Int>): Int = list.maxOrNull()!! - list.minOrNull()!! new*
fun combineLists(list1: List<Int>, list2: List<Int>): List<Int> = list1 + list2 new*
fun isProfitable(prob: Double, prize: Double, pay: Double): Boolean = prob * prize > pay new*
fun isSumLessThan100(a: Int, b: Int): Boolean = a + b < 100 new*
fun isDivisibleBy100(num: Int): Boolean = num % 100 == 0 new*
fun calculateFrames(minutes: Int, fps: Int): Int = minutes * 60 * fps new*
fun repetition(txt: String, n: Int): String = if (n == 0) "" else txt + repetition(txt, n: n - 1) new*
fun repetition(txt: String, n: Int): String = if (n == 0) "" else txt + repetition(txt, n: n - 1) new*
fun equation(expr: String): Int { new*
   val engine = javax.script.ScriptEngineManager().getEngineByName( shortName: "js")
   return engine.eval(expr) as Int
fun google(number: Int): String = "G${"o".repeat(number)}gle" new*
fun greet() = println("Привет, мир!") new *
fun maxOfTwo(a: Int, b: Int): Int = maxOf(a, b) new*
fun isEven(num: Int): Boolean = num % 2 == 0 new*
fun factorial(n: Int): Int = if (n <= 1) 1 else n * factorial(n: n - 1) new*</pre>
```

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fun isPrime(num: Int): Boolean { new*
   for (i in 2 ≤ until < num) {
       if (num % i == 0) return false
   return true
fun sumArray(arr: IntArray): Int = arr.sum() new*
fun maxInArray(arr: IntArray): Int = arr.maxOrNull()!! new*
fun sortArray(arr: IntArray): IntArray = arr.sortedArray() new*
fun isPalindrome(s: String): Boolean = s == s.reversed() new*
fun charCount(s: String): Int = s.length new*
fun toUpperCase(s: String): String = s.uppercase() new*
fun concatStrings(s1: String, s2: String): String = s1 + s2 new*
fun lastElement(arr: IntArray): Int = arr.last() new*
fun containsElement(arr: IntArray, element: Int): Boolean = element in arr new*
fun createArray(n: Int): IntArray = IntArray(n) { it + 1 } new*
fun findMinMax(arr: IntArray): Pair<Int, Int> = Pair(arr.minOrNull()!!, arr.maxOrNull()!!) new
fun celsiusToFahrenheit(c: Double): Double = c * 9/5 + 32 new*
fun reverseString(s: String): String = s.reversed() new*
fun getElementAtIndex(arr: IntArray, index: Int): Int = arr[index] new*
```

```
fun removeSpaces(s: String): String = s.replace( oldValue: " ", newValue: "") new "
//35
fun sumNaturalNumbers(n: Int): Int = n * (n + 1) / 2 new "
//36
fun containsSubstring(s: String, sub: String): Boolean = sub in s new "
//37
fun printMultiplicationTable(n: Int) { new "
    for (i in 1 ≤ ... ≤ 10) {
        println("$n x $i = ${n * i}")
    }
}
//38
fun stringLength(s: String): Int = s.length new "
//39
fun reverseArray(arr: IntArray): IntArray = arr.reversedArray() new "
//40
fun copyArray(arr: IntArray): IntArray = arr.copyOf() new "
//41
fun countVowels(s: String): Int = s.count { it.tolowerCase() in setOf('a', 'e', 'i', 'o', 'u') } new "
//42
fun firstIndexOf(arr: IntArray, element: Int): Int = arr.indexOf(element) new "
```