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function isEven(number) { return number % 2 === 0; }
console.log(isEven(3)); // ímpar console.log(isEven(8)); // par

function factorial(number) { if (number === 0) { return 1; } else {
return number * factorial(number - 1); } } console.log(factorial(5));
// 120 console.log(factorial(0)); // 1

function isPrime(number) { for (let i = 2; i < number; i++) { if
(number % i === 0) { return false; } } return true; }
console.log(isPrime(7)); // true console.log(isPrime(10)); // false

function fibonacci(n) { let a = 0; let b = 1; for (let i = 0; i < n;
i++) { let next = a + b; a = b; b = next; } return [a, b]; }
console.log(fibonacci(10)); // [0, 1, 1, 2, 3, 5, 8, 13, 21, 34]

function reverse(string) { return string.split("").reverse().join("");
} console.log(reverse("Javascript")); // "tpircsavaJ"

function findEvens(array) { return array.filter((number) => number % 2
=== 0); } console.log(findEvens([1, 2, 3, 4, 5, 6, 7, 8])); // [2, 4,
6, 8]

function isPalindrome(word) { return word ===
word.split("").reverse().join(""); } console.log(isPalindrome("ovo"));
// true console.log(isPalindrome("uva")); // false

function countVowels(word) { const vowels = ["a", "e", "i", "o", "u"];
return word.split("").filter((letter) =>
vowels.includes(letter)).length; } console.log(countVowels("maçã")); //
2 console.log(countVowels("banana")); // 3

function sumEvens(start, end) { let sum = 0; for (let i = start; i <=
end; i++) { if (i % 2 === 0) { sum += i; } } return sum; }
console.log(sumEvens(1, 10)); // 30

function multiply(x, y) { if (y === 0) { return 0; } else { return x +
multiply(x, y - 1); } } console.log(multiply(5, 2)); // 10
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