Respostas dos 20 Exercícios Intermediários

1. function maior(a, b) { return a > b ? a : b; }

2. function menor(array) { return Math.min(...array); }

3. function ehPalindromo(str) { str = str.toLowerCase().replace(/[^a-z]/g, ''); return str === str.split('').reverse().join(''); }

4. function filtrarPares(arr) { return arr.filter(n => n % 2 === 0); }

5. function paraMaiusculas(arr) { return arr.map(str => str.toUpperCase()); }

6. function contarVogais(str) { return (str.match(/[aeiou]/gi) || []).length; }

7. function fatorial(n) { return n <= 1 ? 1 : n * fatorial(n - 1); }

8. function arrayParaString(arr) { return arr.join(','); }

9. function somaMultiplos(n) { let soma = 0; for (let i = 0; i < n; i++) if (i % 3 === 0 || i % 5 === 0) soma += i; return soma; }

10. function gerarAleatorios(n) { return Array.from({ length: n }, () => Math.floor(Math.random() * 101)); }

11. function removerDuplicados(arr) { return [...new Set(arr)]; }

12. function ehPar(n) { return n % 2 === 0; }

13. function ordenarStrings(arr) { return arr.sort(); }

14. function dataAnterior(data) { return new Date(data) < new Date(); }

15. function contarLetra(str, letra) { return str.split('').filter(c => c === letra).length; }

16. function acimaDaMedia(arr) { let media = arr.reduce((a, b) => a + b) / arr.length; return arr.filter(n => n > media); }

17. function mediaPonderada(arr) { let total = arr.reduce((acc, obj) => acc + obj.nota * obj.peso, 0); let pesos = arr.reduce((acc, obj) => acc + obj.peso, 0); return total / pesos; }

18. function fibonacci(n) { let seq = [0, 1]; for(let i = 2; i < n; i++) seq.push(seq[i-1] + seq[i-2]); return seq.slice(0, n); }

19. function dentroIntervalo(n, min, max) { return n >= min && n <= max; }

20. function fraseParaPalavras(frase) { return frase.replace(/[.,!?]/g, '').split(' '); }