

# JavaScript Interview Questions (Basic to Advanced)

## Basic Level

- Reverse a string
- Check if a string is palindrome
- Count vowels in a string
- Find the factorial of a number
- Find the largest number in an array
- Remove duplicates from an array
- Check if two arrays are equal
- Find the sum of array elements
- Sort an array without using built-in functions
- Check if a number is prime
- Generate Fibonacci series
- Convert first letter of each word to uppercase
- Find the frequency of elements in an array
- Merge two sorted arrays
- Reverse words in a sentence

## Intermediate Level

- Difference between var, let, const
- Explain hoisting
- Write custom map()
- Write custom filter()
- Write custom reduce()
- Implement debouncing
- Implement throttling
- Deep copy vs Shallow copy
- Explain closures
- Flatten a nested array
- Convert array to object and object to array
- Sum numbers inside nested objects
- Sort array of objects
- Remove falsy values
- Explain 'this' keyword
- Function Currying
- Deep compare two objects
- Create custom event emitter
- Explain event propagation
- Difference between sync and async

## Advanced Level

- Explain Event Loop
- Convert callback to promise
- Promise chaining

- Custom Promise implementation
- Explain async/await
- Implement Promise.all()
- Implement Promise.race()
- Prototype & prototype chain
- Class inheritance
- Memoization
- LRU Cache implementation
- Create custom bind()
- Create custom call()
- Create custom apply()
- Manual JSON.stringify()
- Virtual DOM explanation
- Garbage Collection
- Web APIs, Promises, Microtasks
- Retry logic function
- Polyfill for Array.flat()