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Top 179 JavaScript Interview Questions

Entry | Junior | Mid | Senior | Expert ○ Only Code Challenges | Search Question b

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Topic Progress:

Theoretical Questions

Q1: **What is the `object` type?** Add to PDF | Entry ✓

Q2: **Explain arrays in JavaScript** Add to PDF | Entry ✓

Q3: **What is `typeof` operator?** Add to PDF | Entry ✓

Q4: **Explain equality in JavaScript** Add to PDF | Entry ✓

Q5: **What is `Scope` in JavaScript?** Add to PDF | Entry ✓

Q6: **Explain what is Linear (Sequential) Search and when may we use one?** JS PY Related To: Searching, Python Add to PDF Junior ✓

Q7: **Explain Values and Types in JavaScript** Add to PDF Junior ✓

Q8: **What is `let` keyword in JavaScript?** Add to PDF Junior ✓

Q9: **Explain what is Binary Search** JS Java PY Related To: Searching, Java Add to PDF Junior ✓

Q10: **Explain the same-origin policy with regards to JavaScript.** Add to PDF Junior ✓

Q11: **What is the difference between `==` and `===` ?** Add to PDF Junior ✓

Q12: **Is there anyway to force using strict mode in Node.js?** Add to PDF Junior ✓

Q13: **Why would you use something like the `load` event? Does this event have disadvantages? Do you know any alternatives, and why would you use those?** Add to PDF Junior ✓

Q14: **What is `strict mode` ?** Add to PDF Junior ✓

Q15: **What's the difference between Host objects and Native objects?** Add to PDF Junior ✓

Q16: **What language constructions do you use for iterating over object properties and array items?** Add to PDF Junior ✓

Q17: **What are some of the advantages/disadvantages of writing JavaScript code in a language that compiles to JavaScript?** Add to PDF Junior ✓

Q18: **Explain event bubbling and how one may prevent it** Add to PDF Junior ✓

Q19: **What does `use strict` do?** Add to PDF Junior ✓

Q20: **Why is it, in general, a good idea to leave the global scope of a website as-is and never touch it?** Add to PDF Junior ✓

Q21: **What is a Polyfill?** Add to PDF Junior ✓

Q22: **Explain `Null` and `Undefined` in JavaScript** Add to PDF Junior ✓

Q23: **What's the difference between `throw Error('msg')` vs `throw new Error('msg')` ?** Add to PDF Junior ✓

Q24: **What is *Callback Hell* and what is the *main cause* of it?** Related To: Node.js Add to PDF Junior ✓

Q25: **Explain what is Interpolation Search** JS PY Related To: Searching, Python 🔒 Add to PDF Mid ✓

Q26: **What is IIFEs (Immediately Invoked Function Expressions)?** 🔒 Add to PDF Mid ✓

Q27: **What is Coercion in JavaScript?** 🔒 Add to PDF Mid ✓

Q28: **What is the difference between a shim and a polyfill?** 🔒 Add to PDF Mid ✓

Q29: **What is a Jump (or Block) Search?** JS Java PY Related To: Searching, Python 🔒 Add to PDF Mid ✓

Q30: **What is the definition of a *Higher-Order Function*?** 🔒 Add to PDF Mid ✓

Q31: **What do you think of AMD vs CommonJS?** 🔒 Add to PDF Mid ✓

Q32: **Explain the differences on the usage of `foo` between `function foo() {}` and `var foo = function() {}`** 🔒 Add to PDF Mid ✓

Q33: **What is the drawback of creating true private in JavaScript?** 🔒 Add to PDF Mid ✓

Q34: **What's the difference between `.call` and `.apply` ?** 🔒 Add to PDF Mid ✓

Q35: **What is the preferred syntax for defining enums in JavaScript?** 🔒 Add to PDF Mid ✓

Q36: **Describe *Closure* concept in JavaScript as best as you could** 🔒 Add to PDF Mid ✓

Q37: **Could you explain the difference between ES5 and ES6** 🔒 Add to PDF Mid ✓

Q38: **When should we use generators in ES6?** 🔒 Add to PDF Mid ✓

Q39: **Explain `Function.prototype.bind`.** Add to PDF Mid

Q40: **What are the benefits of using *spread syntax* in ES6 and how is it different from *rest syntax*?** Add to PDF Mid

Q41: **When should I use Arrow Functions in ES6?** Add to PDF Mid

Q42: **Explain the difference between `undefined` and *not defined* in JavaScript** Add to PDF Mid

Q43: **What are the advantages and disadvantages of using `use strict` ?** Add to PDF Mid

Q44: **What is *Currying*?** Add to PDF Mid

Q45: **What are the differences between ES6 class and ES5 function constructors?** Add to PDF Mid

Q46: **Why should we use ES6 classes?** Add to PDF Mid

Q47: **Explain the difference between `Object.freeze()` vs `const`** Add to PDF Mid

Q48: **How to compare two objects in JavaScript?** Add to PDF Mid

Q49: **What will be the output of the following code?** Add to PDF Mid

Q50: **What is a closure, and how/why would you use one?** Add to PDF Mid

Q51: **What will be the output of the following code?** Add to PDF Mid

Q52: **What's a typical use case for anonymous functions?** Add to PDF Mid

Q53: **Suggest one simple way of removing duplicates from an array using ES6** Add to PDF Mid

Q54: **What is generator in JS?** Add to PDF Mid

Q55: **What is the difference between document `load` event and document `DOMContentLoaded` event?** Add to PDF Mid

Q56: **What's the difference between using `let` and `var` to declare a variable in ES6?** Add to PDF Mid

Q57: **What is the motivation for bringing `Symbol` to ES6?** 🔒 Add to PDF Mid ✓

Q58: **Why is extending built-in JavaScript objects not a good idea?** 🔒 Add to PDF Mid ✓

Q59: **What *advantages* are using *arrow functions*?** 🔒 Add to PDF Mid ✓

Q60: **What is the difference between Anonymous and Named functions?** 🔒 Add to PDF Mid ✓

Q61: **What is `export default` in JavaScript?** Related To: Node.js 🔒 Add to PDF Mid ✓

Q62: **What is the `new` keyword in JavaScript?** 🔒 Add to PDF Senior ✓

Q63: **Explain Prototype Inheritance in JavaScript?** 🔒 Add to PDF Senior ✓

Q64: **What does the term *Transpiling* stand for?** 🔒 Add to PDF Senior ✓

Q65: **Can you give an example for destructuring an object or an array in ES6?** 🔒 Add to PDF Senior ✓

Q66: **Explain the Prototype Design Pattern** 🔒 Add to PDF Senior ✓

Q67: **Describe the JS module design pattern** 🔒 Add to PDF Senior ✓

Q68: **Can you describe the main difference between a `.forEach` loop and a `.map()` loop and why you would pick one versus the other?** 🔒 Add to PDF Senior ✓

Q69: **Explain what is *Hoisting* in Javascript** 🔒 Add to PDF Senior ✓

Q70: **How can you share code between files?** 🔒 Add to PDF Senior ✓

Q71: **What are the actual uses of ES6 WeakMap?** 🔒 Add to PDF Senior ✓

Q72: **Explain difference between: `function Person(){}`, `var person = Person()`, and `var person = new Person()`?** 🔒 Add to PDF Senior ✓

Q73: **Check if a given string is a isomorphic** 🔒 Add to PDF Senior ✓

Q74: **What is Hoisting in JavaScript?** 🔒 Add to PDF Senior ✓

Q75: **When should you NOT use arrow functions in ES6? Name three or more cases.** 🔒 Add to PDF Senior ✓

Q76: **What's the difference between a variable that is: `null` , `undefined` or undeclared? How would you go about checking for any of these states?** 🔒 Add to PDF Senior ✓

Q77: **What is the Temporal Dead Zone in ES6?** 🔒 Add to PDF Senior ✓

Q78: **Explain how JSONP works (and how it's not really Ajax)** 🔒 Add to PDF Senior ✓

Q79: **Could you compare usage of Module Pattern vs Constructor/Prototype pattern?** 🔒 Add to PDF Senior ✓

Q80: **What tools can be used to assure consistent code style?** 🔒 Add to PDF Senior ✓

Q81: **Does JavaScript have a `map` function to *iterate* over an object properties?** Related To: Node.js 🔒 Add to PDF Senior ✓

Q82: **When would you use `import * as X from 'X'` ?** Related To: Node.js 🔒 Add to PDF Senior ✓

Q83: **How would you prevent Callback Hell *without* using promises, async or generators?** Related To: Node.js 🔒 Add to PDF Senior ✓

Q84: **What's the difference between ES6 `Map` and `WeakMap` ?** 🔒 Add to PDF Expert ✓

Q85: **What is the difference between the `await` keyword and the `yield` keyword?** 🔒 Add to PDF Expert ✓

Q86: **Compare `Async/Await` and `Generators` usage to achive same functionality** 🔒 Add to PDF Expert ✓

Q87: **How to *deep-freeze* object in JavaScript?** 🔒 Add to PDF Expert ✓

Q88: **Is it possible to reset an ECMAScript 6 generator to its initial state?** 🔒 Add to PDF Expert ✓

Q89: **Is JavaScript a pass-by-reference or pass-by-value language?** 🔒 Add to PDF Expert ✓

Q90: **In JavaScript, why is the `this` operator inconsistent?** 🔒 Add to PDF Expert ✓

Q91: **Can you give an example of a curry function and why this syntax offers an advantage?** 🔒 Add to PDF Expert ✓

Q92: **Does JavaScript pass by *references* or pass by *values*?** Related To: Node.js 🔒 Add to PDF Expert ✓

Code Challenges

Q1: **Explain how Bubble Sort works** JS PY Related To: Sorting <> Add to PDF Entry ✓

Q2: **Lucky sevens** <> Add to PDF Entry ✓

Q3: **Simple clock angle** <> Add to PDF Entry ✓

Q4: **Sum of several arrays** <> Add to PDF Entry ✓

Q5: **Test divisors of three** <> Add to PDF Entry ✓

Q6: **Oddball sum** <> Add to PDF Entry ✓

Q7: **Sum of Array Plus One** <> Add to PDF Entry ✓

Q8: **String Rotation** <> Add to PDF Entry ✓

Q9: **Implement a Queue using two Stacks** CS JS Java PY Related To: Queues, Stacks, Java, C# <> Add to PDF Junior ✓

Q10: **Return the N-th value of the Fibonacci sequence Recursively** JS Java PY Related To: Fibonacci Series, Data Structures, Java <> Add to PDF Junior ✓

Q11: **Return the N-th value of the Fibonacci sequence. Solve in `O(n)` time** JS Java PY Related To: Fibonacci Series, Data Structures, Python <> Add to PDF Junior ✓

Q12: **Explain how Insertion Sort works** JS Java PY Related To: Sorting, Python <> Add to PDF Junior ✓

Q13: **Make this work** <> Add to PDF Junior ✓

Q14: **Given a string, reverse each word in the sentence** <> Add to PDF Junior ✓

Q15: **Implement enqueue and dequeue using only two stacks** <> Add to PDF Junior ✓

Q16: **Write a "mul" function which will properly when invoked as below syntax** <> Add to PDF Junior ✓

Q17: **Explain what a *callback* function is and provide a simple example** <> Add to PDF Junior ✓

Q18: **How to empty an array in JavaScript?** <> Add to PDF Junior ✓

Q19: **Find the missing number in `O(n)` time** <> Add to PDF Junior ✓

Q20: **Write a function that would allow you to do this?** <> Add to PDF Junior ✓

Q21: **Remove duplicates of an array and return an array of only unique elements** <> Add to PDF Junior ✓

Q22: **How to check if an object is an array or not? Provide some code.** <> Add to PDF Junior ✓

Q23: **How would you check if a number is an integer?** <> Add to PDF Junior ✓

Q24: **Two sum problem** <> Add to PDF Junior ✓

Q25: **Determine overlapping numbers in ranges** <> Add to PDF Junior ✓

Q26: **Stock maximum profit** <> Add to PDF Junior ✓

Q27: **Tree Level Order Print** <> Add to PDF Junior ✓

Q28: **Step-by-step solution for step counting using recursion** <> Add to PDF Junior ✓

Q29: **Implement Bubble Sort** <> Add to PDF Junior ✓

Q30: **Get the N-th Fibonacci number with *`O(n)`* time and *`O(1)`* space complexity** JS PY Related To: Fibonacci Series <> 🔒 Add to PDF Mid ✓

Q31: **Explain how Merge Sort works** JS PY Related To: Divide & Conquer, Sorting <> 🔒 Add to PDF Mid ✓

Q32: **Explain how *Heap Sort* works** JS PY Related To: Heaps and Maps, Sorting, Data Structures <> 🔒 Add to PDF Mid ✓

Q33: **LIS: Find length of the *longest increasing subsequence (LIS)* in the array. Solve using DP.** JS Java PY Related To: Dynamic Programming, Data Structures, Python <> 🔒 Add to PDF Mid ✓

Q34: **How to merge two sorted *Arrays* into a *Sorted Array*?** JS Java PY Related To: Arrays, Data Structures, Java, Python <> 🔒 Add to PDF Mid ✓

Q35: **Provide some examples of non-bulean value coercion to a boolean one** <> 🔒 Add to PDF Mid ✓

Q36: **Write a program for Recursive Binary Search** JS Java PY Related To: Searching, Java, Python <> 🔒 Add to PDF Mid ✓

Q37: **Find all the *Permutations* of a String** JS Java PY Related To: Backtracking, Strings, Data Structures, Java, Python <> 🔒 Add to PDF Mid ✓

Q38: **Check if parentheses are balanced using Stack** JS Java PY Related To: Stacks, Java, Python <> 🔒 Add to PDF Mid ✓

Q39: **Given an array of integers, find the largest difference between two elements such that the element of lesser value must come before the greater element** <> 🔒 Add to PDF Mid ✓

Q40: **What will the following code output?** <> 🔒 Add to PDF Mid ✓

Q41: **Write a function that would allow you to do this** <> 🔒 Add to PDF Mid ✓

Q42: **Given an array of integers, find the largest product yielded from three of the integers** <> 🔒 Add to PDF Mid ✓

Q43: **What will be the output of the following code?** <> 🔒 Add to PDF Mid ✓

Q44: **Check if a given string is a palindrome. Case sensitivity should be taken into account.** <> 🔒 Add to PDF Mid ✓

Q45: **Find the intersection of two arrays** <> 🔒 Add to PDF Mid ✓

Q46: **Write a recursive function that returns the binary string of a given decimal number** <> 🔒 Add to PDF Mid ✓

Q47: **How would you use a closure to create a private counter?** <> 🔒 Add to PDF Mid ✓

Q48: **FizzBuzz Challenge** <> 🔒 Add to PDF Mid ✓

Q49: **Given two strings, return true if they are anagrams of one another** <> 🔒 Add to PDF Mid ✓

Q50: **All Permutations (Anagrams) of a String** <> 🔒 Add to PDF Mid ✓

Q51: **Find all string combinations consisting only of 0, 1 and ?** <> 🔒 Add to PDF Mid ✓

Q52: **Generate all balanced bracket combinations** <> 🔒 Add to PDF Mid ✓

Q53: **Implement a queue using two stacks** <> 🔒 Add to PDF Mid ✓

Q54: **Throttle Function Implementation** <> 🔒 Add to PDF Mid ✓

Q55: **Find Word Positions in Text** <> 🔒 Add to PDF Mid ✓

Q56: **Merge two sorted linked lists** <> 🔒 Add to PDF Mid ✓

Q57: **Dutch national flag sorting problem** <> 🔒 Add to PDF Mid ✓

Q58: **Insert an interval into a list of sorted disjoint intervals** <> 🔒 Add to PDF Mid ✓

Q59: **Implement a queue using a linked list** <> 🔒 Add to PDF Mid ✓

Q60: **Quickly calculate the cube root of 6 digit numbers** <> 🔒 Add to PDF Mid ✓

Q61: **Implement `pow(a,b)` without multiplication or division** <> 🔒 Add to PDF Mid ✓

Q62: **How would you read files *in sequence* in Node.js? Provide a code example** Related To: Node.js <> 🔒 Add to PDF Mid ✓

Q63: **Fix this code. Explain the fix.** Related To: Node.js <> 🔒 Add to PDF Mid ✓

Q64: **How to use Memoization for N-th Fibonacci number?** JS Java Related To: Dynamic Programming, Fibonacci <> 🔒 Add to PDF Senior ✓

Series, Recursion

Q65: **How to recursively reverse a Linked List?** JS Java PY Related To: Linked Lists, Recursion

<> 🔒 Add to PDF Senior ✓

Q66: **Explain how Radix Sort works** JS PY Related To: Sorting, Python

<> 🔒 Add to PDF Senior ✓

Q67: **Binet's formula: How to calculate Fibonacci numbers without Recursion or Iteration?** CS JS Java PY Related To: Fibonacci Series, Data Structures, C#

<> 🔒 Add to PDF Senior ✓

Q68: **Explain how *QuickSort* works** JS PY Related To: Divide & Conquer, Sorting, Data Structures

<> 🔒 Add to PDF Senior ✓

Q69: **Calculate n-th Fibonacci number using Tail Recursion** JS Java Related To: Fibonacci Series

<> 🔒 Add to PDF Senior ✓

Q70: **Explain what is *Fibonacci Search* technique?** CS JS Java PY Related To: Divide & Conquer, Fibonacci Series, Searching, Data Structures, C#

<> 🔒 Add to PDF Senior ✓

Q71: **Explain when and how to use Exponential (aka Doubling or Galloping) Search?** JS PY Related To: Searching

<> 🔒 Add to PDF Senior ✓

Q72: **Write a recursive function that performs a binary search**

<> 🔒 Add to PDF Senior ✓

Q73: **When would you use the `bind` function?**

<> 🔒 Add to PDF Senior ✓

Q74: **Create a function that will evaluate if a given expression has balanced parentheses using stacks**

<> 🔒 Add to PDF Senior ✓

Q75: **How would you create a private variable in JavaScript?**

<> 🔒 Add to PDF Senior ✓

Q76: **How would you add your own method to the Array object so the following code would work?**

<> 🔒 Add to PDF Senior ✓

Q77: **How does the `this` keyword work? Provide some code examples**

<> 🔒 Add to PDF Senior ✓

Q78: **What will be the output of the following code?**

<> 🔒 Add to PDF Senior ✓

Q79: **Given an integer, determine if it is a power of 2. If so, return that number, else return -1** <> Add to PDF Senior

Q80: **What will the following code output?** <> Add to PDF Senior

Q81: **What will be the output of the following code?** <> Add to PDF Senior

Q82: **Explain why the following doesn't work as an IIFE. What needs to be changed to properly make it an IIFE?** <> Add to PDF Senior

Q83: **What is *Closure* in JavaScript? Provide an example** <> Add to PDF Senior

Q84: **Transform Word** <> Add to PDF Senior

Q85: **Generating Fibonacci Sequence using ES6 generator functions** JS Related To: Fibonacci Series <> Add to PDF Expert

Q86: **Copy a Linked List with Random (Arbitrary) Pointer using `O(1)` Space** JS Java PY Related To: Linked Lists <> Add to PDF Expert

Q87: **Describe the Revealing Module Pattern design pattern** <> Add to PDF Expert

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27 Advanced MongoDB Interview Questions (ANSWERED) For Experienced Developers

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