JavaScript Interview Questions

1. Basic JavaScript Interview Questions

1. **What is JavaScript?**

2. **How is JavaScript different from Java?**

3. **What are the different data types in JavaScript?**

4. **What are var, let, and const?**

5. **What is hoisting in JavaScript?**

6. **What is the difference between == and ===?**

7. **What are truthy and falsy values in JavaScript?**

8. **What is the difference between null and undefined?**

9. **What are JavaScript comments, and how do you write them?**

10. **How do you declare a function in JavaScript?**

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2. JavaScript Data Structures & Operations

11. **What is the difference between an array and an object?**

12. **How do you iterate over an array in JavaScript?**

13. **What is the difference between push() and pop()?**

14. **How do you remove duplicates from an array?**

15. **What are array methods like map(), filter(), and reduce()?**

16. **What is the difference between forEach() and map()?**

17. **What is the splice() method used for?**

18. **How do you convert an array to a string?**

19. **What is the difference between Object.keys() and Object.values()?**

20. **How do you check if a key exists in an object?**

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3. Functions & Scope

21. **What is function scope in JavaScript?**

22. **What is the difference between global, local, and block scope?**

23. **What is a higher-order function?**

24. **What are callback functions, and why are they used?**

25. **What is currying in JavaScript?**

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26. What is an IIFE (Immediately Invoked Function Expression)?

27. What is the difference between function declaration and function expression?

28. What are arrow functions, and how are they different from regular functions?

29. What is the difference between call(), apply(), and bind()?

30. What is closure in JavaScript?

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4. Asynchronous JavaScript

31. What is the difference between synchronous and asynchronous programming?

32. What are callbacks, and how do they work?

33. What is callback hell, and how do you avoid it?

34. What are Promises, and how do they work?

35. What is the difference between .then() and .catch() in Promises?

36. What are async/await, and how do they work?

37. What happens if an async function doesn't return a Promise?

38. What is the difference between Promise.all() and Promise.race()?

39. What is event loop in JavaScript?

40. What is microtask queue vs. macrotask queue?

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5. Object-Oriented JavaScript

41. What is the difference between prototypal inheritance and classical inheritance?

42. What is a prototype in JavaScript?

43. What are constructor functions?

44. How do you create a class in JavaScript?

45. What is super keyword in JavaScript?

46. What is the difference between static and instance methods?

47. What is Object.create(), and how does it work?

48. What are getter and setter methods in JavaScript?

49. What is mixins, and how do they work?

50. What is the difference between Object.assign() and spread operator (...)?

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6. DOM (Document Object Model) Manipulation

51. What is the DOM?

52. What is the difference between document.getElementById() and document.querySelector()?

53. How do you add an event listener in JavaScript?

54. What is event delegation?

55. What is the difference between innerHTML, textContent, and innerText?

56. How do you modify the attributes of an element using JavaScript?

57. What are createElement() and appendChild() used for?

58. How do you remove an element from the DOM?

59. What is event bubbling and event capturing?

60. What is preventDefault() and stopPropagation()?

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7. Error Handling & Debugging

61. What is the try...catch statement used for?

62. What is finally block in JavaScript?

63. What are custom errors, and how do you create them?

64. What is the difference between throw and console.error()?

65. What are breakpoints, and how do they help in debugging?

66. What is debugger statement in JavaScript?

67. How can you catch an error in a Promise?

68. What is the onerror event in JavaScript?

69. What are linting tools, and why are they important?

70. What is console.table() used for?

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8. ES6+ Features

71. What is destructuring in JavaScript?

72. What are template literals, and why are they useful?

73. What is the difference between let, const, and var?

74. What are default parameters in functions?

75. What is the spread operator (...)?

JavaScript Interview Questions

76. What are modules, and how do you import/export in JavaScript?

77. What are symbol and weakMap in JavaScript?

78. What are optional chaining (?.) and nullish coalescing (??)?

79. What is BigInt, and when should you use it?

80. What is the difference between for...of and for...in?

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9. JavaScript in the Browser

81. What is localStorage, sessionStorage, and cookies?

82. What is setTimeout() and setInterval()?

83. What is the navigator object in JavaScript?

84. How do you detect a user's browser type in JavaScript?

85. What is geolocation API?

86. How do you access the clipboard in JavaScript?

87. What are Web Workers, and when would you use them?

88. How does drag and drop API work in JavaScript?

89. What is the history object, and how does it work?

90. How do you perform AJAX requests in JavaScript?

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10. Advanced JavaScript Concepts

91. What is functional programming, and how does JavaScript support it?

92. What are pure functions, and why are they important?

93. What is memoization, and how does it work?

94. What is debouncing and throttling?

95. What is Service Worker, and why is it used?

96. What is the difference between REST API and GraphQL?

97. How do you create a custom event in JavaScript?

98. What is a Proxy object, and how does it work?

99. What is dynamic import, and how is it useful?

100.   What is the difference between deep copy and shallow copy?