90+ JavaScript Interview Questions

> *These questions cover Basics, Data Types, and Operators in JavaScript and are for Beginner and Medium Levels. The curated questions are both conceptual and practice-oriented. You can also take advantage of these questions during interview preparations and practice JavaScript.*

What topics will we cover?

❶ Introduction
❷ Data Types
   ① Boolean
   ② Number
❸ Operators
   ① Comparison Operators
   ② Logical Operators
   ③ Arithmetic Operators
   ④ Assignment Operators
   ⑤ Bitwise Operators

❶ Introduction

① What is JavaScript? Where is it mostly used?
② Is JavaScript standardized?
③ Mention the latest specification name.
④ What is a JavaScript engine?
⑤ Specify a few popular JavaScript engines and mention where they are used.
⑥ What is an execution context in JavaScript?
⑦ How many types of execution contexts are there?
⑧ What is hoisting?
⑨ What are the different types of hoisting?
⑩ Explain how variables are hoisted.
⑪ Explain how functions are hoisted.
⑫ What is a call stack?
⑬ Explain how JavaScript uses a call stack.
⑭ Is JavaScript multi-threaded?
⑮ What is an event loop?
⑯ What is a callback queue?

❷ Data Types

① What data types does JavaScript provide?
② How to find out the data type of a value?
   Or,
③ Which operator to use to get the type of a value?
④ What is a primitive in JavaScript?
⑤ What are the different types of primitives?
⑥ What happens in the background when we try to look up methods on a primitive?
⑦ What are the various wrapper objects JavaScript provides out of the box?
⑧ What is the type coercion? Give some examples.
⑨ Any significant difference between "undefined" and "null"?

❷.① Boolean

① What boolean literals does JavaScript provide?
② What all in JavaScript are falsy?
③ What are different ways to convert any value to a boolean?

❷.② Number

① How does JavaScript store numbers in memory?
② What are the different ways to convert a value to a number?
③ Which base of numbers does JavaScript support?
④ How to write binary numbers?
⑤ How to write octal numbers?
⑥ How to write hexadecimal numbers?
⑦ How to convert a decimal into a binary/octal/hexadecimal?
⑧ How to convert a binary/octal/hexadecimal into a decimal?
⑨ How does the parseInt function work?
⑩ What is a numeric separator? Why is it used?
⑪ What is NaN?
⑫ Which operations may result in NaN?
⑬ How to check if a value is NaN?
⑭ What does NaN === NaN return?
⑮ How does JavaScript handle the "Divide by Zero" operation?
⑯ What are MAX_SAFE_INTEGER and MIN_SAFE_INTEGER? How are these different from Infinity and -Infinity?

❸.① Comparison Operators

① What all comparison operators does JavaScript have?
② What type of result do all comparison operators return?
③ How does an abstract equality operator (==) operate?
④ When will type coercion occur for == ?
⑤ What is the difference between == and ===?
⑥ What are the expected data type of operands for <, <=, > and, >= ?
⑦ For string inputs, how do <, <=, > and, >= operate?
⑧ When will type coercion occur for <, <=, > and, >= ?

➤ What will be the output:

⑨ null == undefined
⑩ null === undefined
①① "" == ""
①② "" === ""
①③ [ ] == [ ]
①④ [ ] === [ ]
①⑤ { } == { }
①⑥ { } === { }
①⑦ NaN == NaN
①⑧ NaN === NaN
①⑨ Infinity == Infinity
② Infinity === Infinity
②① [0] == 0
②② [10] == "10"

❸.② Logical Operators

① Why are && and || operators called short-circuit?
② Show how && operates and, what does it return?
③ Show how || operates and, what does it return?
④ Using which boolean operator, a value can be converted to a boolean?
⑤ Which values in JavaScript are Nullish?
⑥ Which operator can be used to detect Nullish values?
⑦ Show how ?? operates and, what does it return?
⑧ Difference between || and ??

❸.③ Arithmetic Operators

① How to find out if a binary + operator is meant for arithmetic addition or, string concatenation?

② What is the result when something is divided by Zero?

③ Which operator can be used to convert a value of any data type to a number?

④ Which arithmetic operations may result in Infinity or, -Infinity?

⑤ What is the precedence of arithmetic operators?

❸.④ Assignment Operators

① What does an assignment operator do?

② What is the simplest assignment operator?

③ What is a shortcut assignment operator?

④ Mention a few shortcut assignment operators.

➤ Explain how the below operators work

⑤ &&=

⑥ ||=

⑦ ??=

❸.⑤ Bitwise Operators

① Which bitwise operators does JavaScript support?

② What are different bitwise shift operators?

③ Swap 2 numbers using a bitwise operator.

④ Truncate a number using a bitwise operator.

Disclaimer

◈ The questions covered here are both conceptual and practical. You should practice and solve problems to become a skilled programmer.

◈ I don't claim that only these types of questions are asked during interviews.

Reach out to me

Did you find these questions useful? I am sharing interview and practice questions on Data Structures and Algorithms, JavaScript, Python, SQL, etc. Do reach out to me on Twitter [@swapnakpanda](https://twitter.com/swapnakpanda)

More interview questions

Check the below links for more JavaScript interview questions:

- [Arrays](#)
- [Strings](#)