What is the `object` type?

Explain arrays in JavaScript

What is `typeof` operator?

Explain equality in JavaScript

What is `Scope` in JavaScript?

Explain what is Linear (Sequential) Search and when may we use one?
,

Explain Values and Types in JavaScript

What is `let` keyword in JavaScript?

Explain what is Binary Search

Explain the same-origin policy with regards to JavaScript.

What is the difference between `==` and `===` ?

Is there anyway to force using strict mode in Node.js?

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?

What is `strict mode` ?

What's the difference between Host objects and Native objects?

What language constructs do you use for iterating over object properties and array items?

What are some of the advantages/disadvantages of writing JavaScript code in a language that compiles to

JavaScript?

> **Explain event bubbling and how one may prevent it**

> **What does** `use strict` **do?**

> **Why is it, in general, a good idea to leave the global scope of a website as-is and never touch it?**

> **What is a Polyfill?**

> **Explain** `Null` **and** `Undefined` **in JavaScript**

> **What's the difference between** `throw Error('msg')` **vs** `throw new Error('msg')` **?**

> **Explain what is Interpolation Search**
>
>   ,

> **What is IIFEs (Immediately Invoked Function Expressions)?**

> **What is Coercion in JavaScript?**

> **What is the difference between a shim and a polyfill?**

> **What is a Jump (or Block) Search?**
>
>   ,

> **What is the definition of a *Higher-Order Function*?**

> **What do you think of AMD vs CommonJS?**

> **Explain the differences on the usage of** `foo` **between** `function foo() {}` **and** `var foo = function() {}`

> **What is the drawback of creating true private in JavaScript?**

> **What's the difference between** `.call` **and** `.apply` **?**

> **What is the preferred syntax for defining enums in JavaScript?**

Describe *Closure* concept in JavaScript as best as you could

Could you explain the difference between ES5 and ES6

When should we use generators in ES6?

Explain `Function.prototype.bind` **.**

What are the benefits of using *spread syntax* in ES6 and how is it different from *rest syntax*?

When should I use Arrow Functions in ES6?

Explain the difference between `undefined` **and *not defined* in JavaScript**

What are the advantages and disadvantages of using `use strict` **?**

What is *Currying*?

What are the differences between ES6 class and ES5 function constructors?

Why should we use ES6 classes?

Explain the difference between `Object.freeze()` **vs** `const`

How to compare two objects in JavaScript?

What will be the output of the following code?

What is a closure, and how/why would you use one?

What will be the output of the following code?

What's a typical use case for anonymous functions?

Suggest one simple way of removing duplicates from an array using ES6

What is generator in JS?

What is the difference between document `load` **event and document** `DOMContentLoaded` **event?**

What's the difference between using `let` **and** `var` **to declare a variable in ES6?**

What is the motivation for bringing `Symbol` **to ES6?**

Why is extending built-in JavaScript objects not a good idea?

What advantages are using arrow functions?

What is the difference between Anonymous and Named functions?

What is the purpose of `setTimeout` **function?**

What is the `new` **keyword in JavaScript?**

Explain Prototype Inheritance in JavaScript?

What does the term *Transpiling* **stand for?**

Can you give an example for destructuring an object or an array in ES6?

Explain the Prototype Design Pattern

Describe the JS module design pattern

Can you describe the main difference between a `.forEach` **loop and a** `.map()` **loop and why you would pick one versus the other?**

Explain what is *Hoisting* **in Javascript**

How can you share code between files?

What are the actual uses of ES6 WeakMap?

Explain difference between: `function Person()`

`{}`, `var person = Person()`, and `var person = new Person()` ?

Check if a given string is a isomorphic

What is Hoisting in JavaScript?

When should you NOT use arrow functions in ES6? Name three or more cases.

What's the difference between a variable that is: `null`, `undefined` or undeclared? How would you go about checking for any of these states?

What is the Temporal Dead Zone in ES6?

Explain how JSONP works (and how it's not really Ajax)

Could you compare usage of Module Pattern vs Constructor/Prototype pattern?

What tools can be used to assure consistent code style?

What's the difference between ES6 `Map` and `WeakMap` ?

What is the difference between the `await` keyword and the `yield` keyword?

Compare `Async/Await` and `Generators` usage to achive same functionality

How to *deep-freeze* object in JavaScript?

Is it possible to reset an ECMAScript 6 generator to its initial state?

Is JavaScript a pass-by-reference or pass-by-value language?

In JavaScript, why is the `this` operator inconsistent?

Can you give an example of a curry function and

why this syntax offers an advantage?

-                    -

Explain how Bubble Sort works

Lucky sevens

Simple clock angle

Sum of several arrays

Test divisors of three

Oddball sum

Sum of Array Plus One

String Rotation

Implement a Queue using two Stacks   ,   ,   ,

Return the N-th value of the Fibonacci sequence Recursively   ,   ,

Return the N-th value of the Fibonacci sequence. Solve in `O(n)` **time**   ,
              ,

Explain how Insertion Sort works   ,

Make this work

Given a string, reverse each word in the sentence

Implement enqueue and dequeue using only two stacks

Write a "mul" function which will properly when invoked as below syntax

Explain what a *callback* **function is and provide a simple example**

How to empty an array in JavaScript?

Find the missing number in `O(n)` **time**

Write a function that would allow you to do this?

Remove duplicates of an array and return an array of only unique elements

How to check if an object is an array or not? Provide some code.

How would you check if a number is an integer?

Two sum problem

Determine overlapping numbers in ranges

Stock maximum profit

Tree Level Order Print

Step-by-step solution for step counting using recursion

Implement Bubble Sort

Get the N-th Fibonacci number with `O(n)` **time and** `O(1)` **space complexity**

Explain how Merge Sort works

,

Explain how *Heap Sort* works

,   ,

LIS: Find length of the *longest increasing subsequence (LIS)* in the array. Solve using DP.

,   ,

How to merge two sorted *Arrays* into a *Sorted Array*?

,   ,   ,

Provide some examples of non-bulean value coercion to a boolean one

Write a program for Recursive Binary Search   ,   ,

Find all the *Permutations* of a String   ,   ,   ,

,

Check if parentheses are balanced using Stack   ,   ,

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

What will the following code output?

Write a function that would allow you to do this

Given an array of integers, find the largest product yielded from three of the integers

What will be the output of the following code?

Check if a given string is a palindrome. Case sensitivity should be taken into account.

Find the intersection of two arrays

Write a recursive function that returns the binary string of a given decimal number

How would you use a closure to create a private counter?

FizzBuzz Challenge

Given two strings, return true if they are anagrams of one another

All Permutations (Anagrams) of a String

Find all string combinations consisting only of 0, 1 and ?

Generate all balanced bracket combinations

Implement a queue using two stacks

Throttle Function Implementation

Find Word Positions in Text

Merge two sorted linked lists

Dutch national flag sorting problem

Insert an interval into a list of sorted disjoint intervals

Implement a queue using a linked list

Quickly calculate the cube root of 6 digit numbers

Implement `pow(a,b)` **without multiplication or division**

How to use Memoization for N-th Fibonacci number?
,
,

How to recursively reverse a Linked List?
,

Explain how Radix Sort works
,

Binet's formula: How to calculate Fibonacci numbers without Recursion or Iteration?
,   ,

Explain how *QuickSort* **works**
,   ,

Calculate n-th Fibonacci number using Tail Recursion

Explain what is *Fibonacci Search* **technique?**
,
,   ,   ,

Explain when and how to use Exponential (aka Doubling or Galloping) Search?

Write a recursive function that performs a binary search

When would you use the `bind` function?

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

How would you create a private variable in JavaScript?

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

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

What will be the output of the following code?

Given an integer, determine if it is a power of 2. If so, return that number, else return -1

What will the following code output?

What will be the output of the following code?

Explain why the following doesn't work as an IIFE. What needs to be changed to properly make it an IIFE?

What is *Closure* in JavaScript? Provide an example

Transform Word

Generating Fibonacci Sequence using ES6 generator functions

Copy a Linked List with Random (Arbitrary)

Pointer using *0(1)* **Space**

      Describe the Revealing Module Pattern design pattern