Front-end Technical Assessment

Duration: 30 minutes

1

Name and Surname

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2

What kind of technologies should a front-end developer know?

Javascript, HTML, CSS, Angular or React, jQuery

3

Share at least 5 things that you like in a front-end framework

About React - It helps you split your HTML into small components which we can use and reuse. It's popular. React is full functional(Functional Programming). It was created for resolving real production problems. It doesn't say you what and how you must use it.

4

What are the scopes of a variable in JavaScript?

We have Local and Global Variables

5

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

=== operator compares values and data types

6

What is the difference between null & undefined?

Undefined - The value does not exist, Null - Intentional absence of the value

7

Mark given data structure with its type

	Linear	Non-Linear
Array	◉	○
Tree	○	◉
Stack	◉	○
Queue	◉	○
Hash Table	○	◉

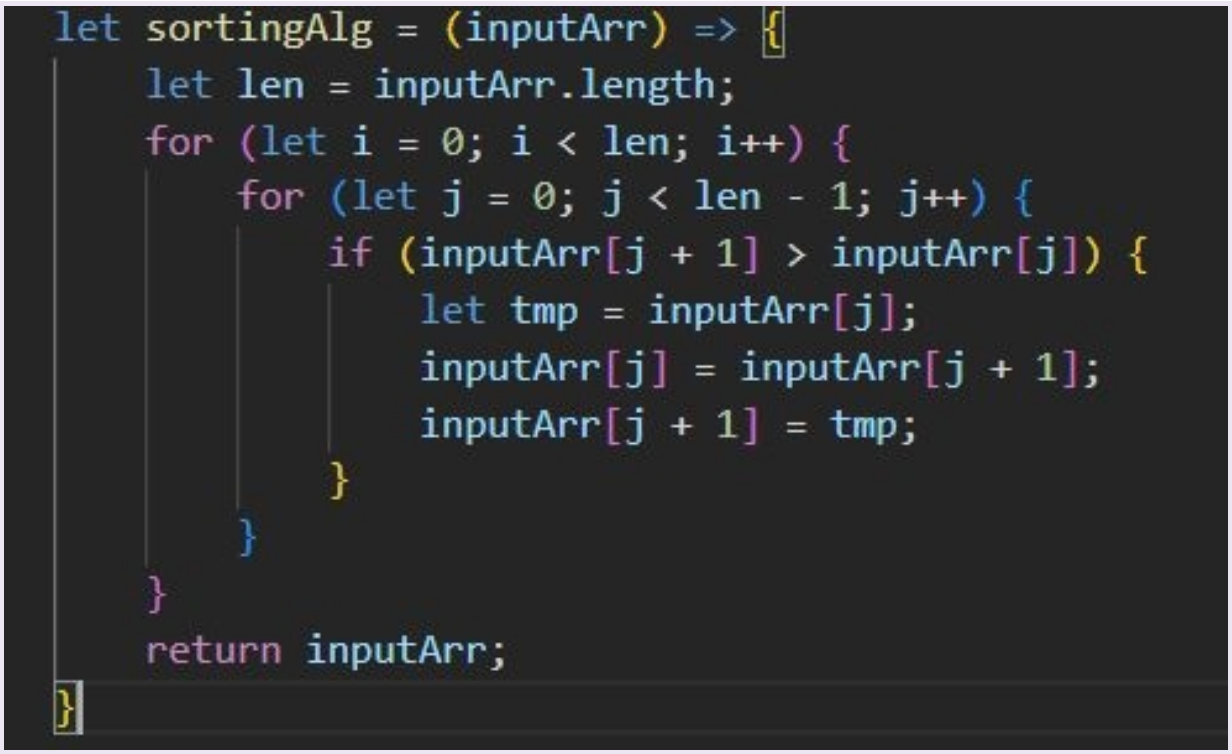
8

List all algorithms you know, separated by commas

Bubble sort, Selection sort, Quick sort

9

What is the name of the given algorithm and tell us if there is a mistake and where it is...



```
let sortingAlg = (inputArr) => {
    let len = inputArr.length;
    for (let i = 0; i < len; i++) {
        for (let j = 0; j < len - 1; j++) {
            if (inputArr[j + 1] > inputArr[j]) {
                let tmp = inputArr[j];
                inputArr[j] = inputArr[j + 1];
                inputArr[j + 1] = tmp;
            }
        }
    }
    return inputArr;
}
```

Bubble sort, but IF should be < instead of >

10

List at least 4 of the HTTP Methods part of the REST Api, separated by commas

POST, GET, PUT, DELETE, PATCH

11

Describe in few words the usage of Spread Operator (...)

Destructing an array

12

Describe the difference between Primary Key and Foreign Key in MySQL

The primary key is a unique key for every element. Foreign Key is the link between two tables

13

You have two tables STUDENTS and EXAMS. STUDENTS have ID, NAME, AGE and columns, EXAMS have ID, DATE, STUDENT_ID. Create a FULL JOIN SQL QUERY.

```
SELECT ID, NAME, AGE, DATE
FROM STUDENTS
FULL JOIN EXAMS
ON STUDENTS.ID = EXAM.STUDENT_ID
```

14

List the 4 main principles of OOP (Object Oriented Programming) and describe them with a few words

Abstraction, Encapsulation, Polymorphism, Inheritance

15

List some of the software development methodologies that you know and describe them with a few words

DevOps
I only heard it
Cant really answer that one

16

What is the difference between git & github/gitlab?

Github - copy of our code, people can access it if we want. Git is a version control software - kee

17

Why do we use branches in our work with git?

We use branches to encapsulate our changes.

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