# Backend Developer

## Questions asked to **Shrirang**, (Interviewer Hardik Shah)

Interviewer asked me to write code on notepad or in any IDE for below problem statement,

(Please refer solution video link from YouTube mention below)

1. Identify the prime number

[Check if given number is Prime Number | Java - YouTube](https://www.youtube.com/watch?v=Rk9Cmut4_BI)

1. Print the number of occurrences of each letter in string like "Mumbai" or "Hello"

[Frequently Asked Java Program 26: How To Count Occurrences of a Character in a String - YouTube](https://www.youtube.com/watch?v=jbGxTi0bi7c)

1. Search number from sorted integer array using Binary sort

[Frequently Asked Java Program 21: Searching an Element in Array | Binary Search - YouTube](https://www.youtube.com/watch?v=Ze7Yecs49MA)

## Questions asked to **Suresha**,

1. Tel us your work experience?

Expectation is to provide the technical stack of projects we have worked

1. Any challenges you have faced?

Expectation is to provide critical scenario we have faced in the work.

1. Explain how you have solved the problem?

Expectation is to provide the explanation of solution we have adapted.

1. Implement the solution sample?

Expectation is to implement the solution in plain java using class using any offline editor, Eclipse, IntelliJ, notepad, or any online editor.

## Questions asked to **Dipesh**, (Interviewer Hardik Shah)

1. Search an element in a sorted Array?
   1. If the array is sorted, then search the element using Binary search.

There are two ways to search using Binary Search:

a. Using Recursion

b. Using Iteration

Both the solutions are here: <https://www.geeksforgeeks.org/java-program-for-binary-search-recursive-and-iterative/>

1. Check whether a number is Prime or not?

Solution : <https://www.geeksforgeeks.org/prime-numbers/>

References shared by **Pranay**

There are some useful resources, which would help us to prepare for such kind of interviews.

**Client may ask for basics like Searching and Sorting algorithms.**

* [**https://leetcode.com/**](https://leetcode.com/)
* [**https://www.hackerrank.com/**](https://www.hackerrank.com/)
* **Prepare couple of scenarios for challenges, and how you resolved. It should be well crafted by anticipating questions on each and every term we use in our answers. Alternatives to the solution implemented.**
* **Prefer using online source editor to write code. Completely avoid writing code snippet in notepad/ offline editor.**
* **Engage more in your answers as next questions would be based on your answers only.**

## Questions asked to **Anishkumar Dhablia**

1. Tell me about yourself.
2. Coding Exercise – File Attached
   1. Write a Servlet and configure with simple message.
      1. Run from browser and check response.
   2. Write a java code to call this servlet.
      1. Download response and print in console.
3. What is current project and domain ?
4. What new algorithm you introduced in this project ?
5. How apache solr indexing algorithm works ?
6. Production Use Case - 1
   1. Process is getting killed by OS, how will you debug or investigate this scenario
   2. What are the steps followed to fix this issue.
7. Production Use Case – 2
   1. Instead process killed by OS, now its throwing Out Of Memory Error what could be the issue.
   2. How to analyses, debug and fix issue.
   3. How to reproduce same in local envs.
8. Production Use Case – 3
   1. Site is becoming unresponsive after certain amount of time, what could be the issue.
      1. This is not related to slow site, complete site is getting blocked.
      2. Database is clean only code is blocked. – Answer – *Thread Dumps*
9. Data structure problem
   1. Create a DS which has two functions with very high frequency
      1. Add Node
      2. Max value of node
   2. Use case
      1. DS is fixed width structure i.e. on addition of new element, most old element will be removed.
      2. 2 <- 3 <- 5 <- 1 – Initial One, Add 7 now
         1. 3 <- 5 <- 1 <- 7
            1. 2 is removed and 7 is appended
            2. Max is 7 now
      3. Work this problem with all data structures keeping time complexity in mind.
         1. Arrays, Stack, Queue, LinkedList, Trees, Graph, Sorting, Searching, Time Complexity etc.

# Frontend Developer

## Questions asked to **Hrushikesh**,

1)what is JS spread operator? where it is used?

ANSWER: it is used to destructure objects

2)What will be output of this function?

(function x()

{

console.log(a);

var a ='m';

console.log(a);

var a = 'n';

console.log(a);

}

)()

ANSWER :

undefined

m

n

3)What will be output of this function?

(function x()

{

a();

function a(){ console.log('m');}

a();

function a(){ console.log('n');}

a();

}

)()

ANSWER :

n

n

n

4)Write a code to find prime numbers from 1 to N

5)write a function to find objects from an object array from the given key and value pair

6) find the second highest number from the array of numbers

7) explain these terms: local storage, session storage, cookies

8)center a div

9)what will be the output of this code snippet

console.log(3>2>1);

10) what will be the output of this code snippet

const a = 6;

a = 5;

console.log(a);

11) what will be the output of this code snippet

const b = {a : 1, b: 2, c: 3, d: 4}

b[44] = [77]

console.log(b)

12) what will be the output of this code snippet

function foo()

{

Let a = b = 0;

a++;

Return a;

}

foo();

console.log(typeof a);

console.log(typeof b);

13) what are promises when and how they are used

14)how would you optimize your website?

15)questions on variable and function hoisting.

TECHNICAL ROUND QUESTIONS

Interviewed by kunal

1)what are promises? What are the states of promises. How can we use states of promises   
can we use promise.settled?

2) what is type coercion?

3)what is temporal dead zone?

4)what is call stack, explain?

5)Search an array of objects for matches. Array, key and search parameter passed.

Do it using filter function

6)Do the above using reduce function?

7)what is prettier, why do you use it?

8)Find the 1000th largest number in array of 10,000,000,000 elements.

Explain how you would do it and why?

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## Questions asked to **Priya**,

what is JavaScript oops concepts?

**Program 1:**

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**Program 2:**

(function x()

{ console.log(a)

var a = ‘m’

console.log(a)

var a = ’n’

console.log(a)

})()

**Program 3:**

(function() {

console.log(1)

setTimeout(function(){console.log(2)}, 0)

Promise.resolve().then(() => console.log(3))

console.log(4)

})();

sort the below array of object in ascending and descending order in javaScript

var items = [

{ price : 100,

name: 'Shoe'},

{

price : 40,

name: 'shirt'},

{

price : 130,

name: 'tie'},

{

price : 110,

name: 'belt'},

{

price : 130,

name: 'shoe'

}

];

## Questions asked to **Kaivalya**, (Interviewer Amee)

1) What will be the output of this code snippet?

(function x(){

var x="sadsa"

console.log(x);

})();

console.log(x);

2) What will be the output of this code snippet?

const a = 6;

a = 5;

console.log(a);

const b = {a : 1, b: 2, c: 3, d: 4}

b[44] = [77]

console.log(b)

3) What will be the output of this code snippet?

var x=10;

function a(){

console.log(x);

}

function b(){

x+=10;

console.log(x);

}

b();

a();

4)

console.log(null == undefined)

console.log(null === undefined)

5)

Coding Problem: Write a function to find the longest common prefix string amongst an array of strings. If there is no common prefix, return an empty string "".

https://leetcode.com/problems/longest-common-prefix/

6) React:

Guess value of count after 1 click of the button:

import React, { useState } from 'react';

export default function App() {

let [count, setCount] = useState(0);

function clickHandler() {

for(let i=0; i< 3; i++) {

setCount(count + 1);

}

}

return (

<>

<button onClick={clickHandler}>Add by 1</button>

<p>Count: {count}</p>

</>

);

}

7)

import React, { useState } from 'react';

export default function App() {

let [count, setCount] = useState(0);

function clickHandler() {

setCount(count + 1);

}

return (

<>

<button onClick={clickHandler}>Add by 1</button>

<p>Count: {count}</p>

</>

);

}

8)

Ex: const arr = [{name: "bcf", score: 22, id: 11, scale:2},

{name: "dbcf", score: 32, id: 121, scale:1},

{name: "jbsq", score: 12, id: 41, scale:3}]

Return objects whose name length is greater than 3.

Return sum of all the scores.

For all elements of the array, return the product of scale and score.

9) CSS: Center a div. Place div at the bottom right.

## 2nd Round (Interviewer Kunal)

Guess the output:

1. (function x()

{

console.log(a)

var a = 'm'

console.log(a)

var a = 'n'

console.log(a)

})()

1. (function x()

{

a()

function a() {console.log('m')}

a()

function a() {console.log('n')}

a()

})()

1. (function() {

console.log(1)

setTimeout(function(){console.log(2)}, 0)

Promise.resolve().then(() => console.log(3))

console.log(4)

})();

1. Given the code "W48-9K5-995Z" and alphabet mapping { 'W': 0, 'Z':1,'R':2, 'K':3}, replace these alphabets from the given code and reverse the code while removing the ‘-’.
2. Search an array of objects for matches. Array, key and search parameter passed. Do it using filter function and reduce function.
3. Which callback functions go into Microtask queue? Which ones go into Callback queue? What are MutationObservers?

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# Technical Writer

## Kratika Chouhan - Interview Questions

* Work experience and brief about projects
* Courses I have done
* Websites I use for technical writing/content
* Process of documentation
* Task – Make a TOC on ‘How to use Mobile Phone’

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## QA Interview

## Rutuja Gundawar - Interview Questions (Interviewer: Peter Willkniss ,Jyoti)

* Work experience and brief about project
* Tool used for defect tracking
* What was the interesting bug which you caught
* Worked on Backbone.js or not (As it was mentioned in my resume)
* Interviewer Shared the work culture of Clever tap and also shared the work process and technology/tools used for automation.

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## Nikita Thadani - Interview Questions (Interviewer: Peter Willkniss)

* Work experience and brief about project. ( what was the project name and what was the project about, asked about the client)
* Process followed in project.
* Tool used for defect tracking.
* Tool used for automation.
* Interviewer Shared the work culture of Clever tap.
* Also mentioned about the work process followed and the technologies/tool used for automation.