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Top 40 Coding Interview Questions You Should Know

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[Programming](#) questions are an integral part of an interview for the developer's position. No matter which [programming language](#) you master, familiarity with fundamental concepts of programming is

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questions article, we will discuss the top 40 coding interview questions you should absolutely know to crack those interviews and get your [dream job](#).

So without further ado, let's get started!

The coding interview questions addresses in this article are grouped into 2 categories (as below make your learning simpler.

1. Conceptual Interview Questions
2. Programming Interview Questions

We will now look at the first category of coding interview questions.

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Coding Interview Questions On Conceptual Understanding

This section covers some coding interview questions that test the conceptual understanding of the candidate.

1. What is a Data Structure?

- A [data structure](#) is a storage format that defines the way data is stored, organized, and manipulated.



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- An **array** is commonly referred to as a collection of items stored at contiguous memory locations.
- Items stored are of the same type.
- It organizes data so that a related set of values can be easily sorted or searched.

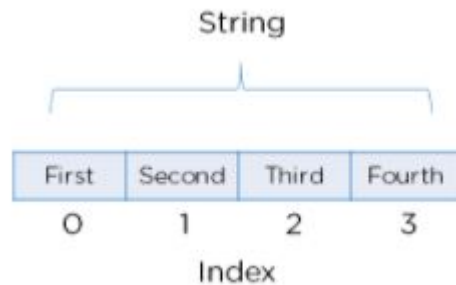


Fig: Array

3. What is a Linked List?

- Like an array, a **linked list** refers to a linear data structure in which the elements are not necessarily stored in a contiguous manner.
- It is basically a sequence of nodes, each node points towards the next node forming a chain-like structure.

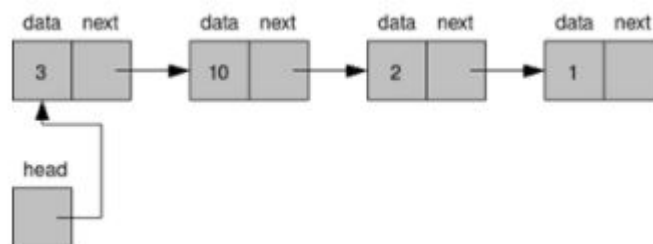


Fig: Linked List

4. What is LIFO?

- LIFO is an abbreviation for Last In First Out
- It is a way of accessing, storing and retrieving data.



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- A stack refers to a linear data structure performing operations in a LIFO (Last In First Out) order.
- In a stack, elements can only be accessed, starting from the topmost to the bottom element.

6. What is FIFO?

- FIFO stands for First In First Out.
- It is a way of accessing, storing and retrieving data.
- The data that was stored first is extracted first.

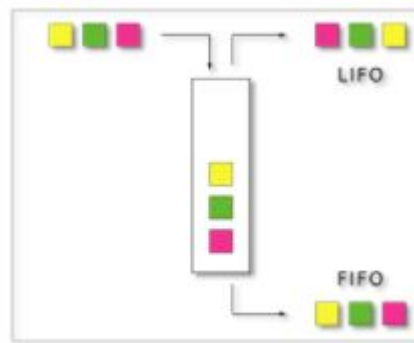


Fig: LIFO, FIFO

Till now, you've covered some very fundamental coding interview questions. Going ahead you will dive deeper into the subject.

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- In a queue, the least recently added elements are removed first as opposed to a stack.



Fig: Queue

8. What are Binary Trees?

- A binary tree is an extension of the linked list structure where each node has at most two children.
- A binary tree has two nodes at all times, a left node and a right node.

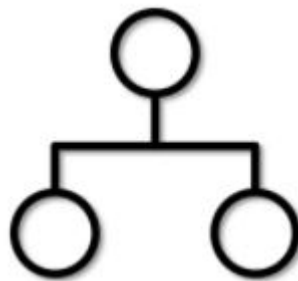


Fig: Binary Trees

9. What is Recursion?

- [Recursion](#) refers to a function calling itself based on a terminating condition.
- It uses LIFO and therefore makes use of the stack data structure.

The next couple of coding interview questions will explore your knowledge of OOPs.

10. What is the OOPs concept?

OOPs stands for [Object-Oriented Programming](#) System, a paradigm that provides concepts such as



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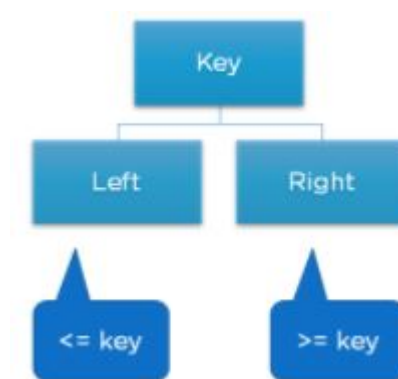
Following are the concepts introduced in OOPs:

- **Object** - A real-world entity having a particular state and behavior. We can define it as an instance of a class.
- **Class** - A logical entity that defines the blueprint from which an object can be created or instantiated.
- **Inheritance** - A concept that refers to an object gaining all the properties and behaviors of a parent object. It provides code reusability.
- **Polymorphism** - A concept that allows a task to be performed in different ways. In Java, we use method overloading and method overriding to achieve polymorphism.
- **Abstraction** - A concept that hides the internal details of an application and only shows the functionality. In Java, we use abstract class and interface to achieve abstraction.
- **Encapsulation** - A concept that refers to the wrapping of code and data together into a single unit.

This is one of the very common coding interview questions, that often allows the interviewer to branch out into related topics based on the candidate's answers

12. Explain what a Binary Search Tree is.

- A [binary search tree](#) is used to store data in a manner that it can be retrieved very efficiently.
- The left sub-tree contains nodes whose keys are less than the node's key value.
- The right sub-tree contains nodes whose keys are greater than or equal to the node's key value



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13. Explain Doubly Linked Lists?

- **Doubly linked lists** are categorized as a special type of linked list in which traversal across the data elements can be done in both directions.
- This is made possible by the presence of two links in every node, one that links to the node next to it and another that connects to the node before it.

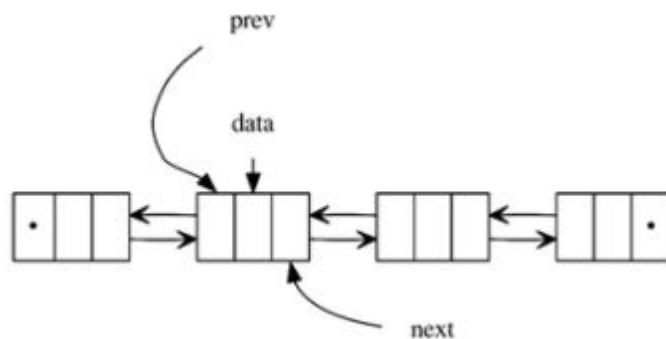


Fig: Doubly Linked List

14. What is a Graph?

- A graph is a particular type of data structure that contains a set of ordered pairs.
- The ordered pairs in a graph are also known as edges or arcs and are most commonly used to connect nodes where the data can be stored and retrieved.



15. Differentiate between linear and non-linear data structure?

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It is a structure in which data elements are adjacent to each other	It is a structure in which each data element can connect to over two adjacent data elements
Examples of linear data structure include linked lists, arrays, queues, and stacks	Examples of nonlinear data structure include graphs and trees

16. What is a Deque?

- A deque is a double-ended queue.
- This is a structure in which elements can be inserted or removed from either end.

17. What's the difference between [Stack](#) and [Array](#)?

Stack	Array
Stack follows a Last In First Out (LIFO) pattern. What this means is that data access necessarily follows a particular sequence where the last data to be stored is the first one that will be extracted.	On the other hand, Arrays do not follow a specific order, but instead can be accessed or called by referring to the indexed element within the array.



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18. Which sorting algorithm is the best?

- There are many types of sorting algorithms: bubble sort, quick sort, balloon sort, merge sort, insertion sort, and more.
- No algorithm can be considered as the best or fastest because they have designed each for a specific type of data structure where it performs the best

19. How does variable declaration affect memory?

- The amount of memory that is to be reserved or allocated depends on the data type being stored in that variable.
- For example, if a variable is declared to be “integer type”, 32 bits of memory storage will then be reserved for that particular variable.

20. What are dynamic data structures?

Dynamic data structures have the feature where they expand and contract as a program runs. It provides a very flexible method of data manipulation because adjusts based on the size of the data to be manipulated.

These 20 coding interview questions that test the conceptual understanding of the candidates give the interview a clear idea on how strong the candidate's fundamentals are

Programming Interview Questions

The next set of coding interview questions focus tests the [programming](#) expertise of the candidates and dives deep into various related aspects.

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21. How do you reverse a string in Java?

- Declare a string.
- Take out the length of that string.
- Loop through the characters of the string.
- Add the characters in reverse order in the new string.

```
String str = "hello";
```

```
String reverse = "";
```

```
int length = str.length();
```

```
for (int i = 0; i < length; i++) {
```

```
    reverse = str.charAt(i) + reverse;
```

```
}
```

```
System.out.println(reverse);
```

22. How do you determine if a string is a palindrome?

- A string is a palindrome when it stays the same on reversing the order of characters in that string.
- It can be achieved by reversing the original string first and then checking if the reversed string is equal to the original string.

```
if (str.equals(reverse)) {
```

```
    System.out.println("Palindrome");
```

```
} else {
```



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23. Find the number of occurrences of a character in a String?

To find the number of occurrences, loop through the string and search for that character at every iteration; whenever it is found, it will update the count.

```
int count = 0;
```

```
char search = 'a';
```

```
for (int i = 0; i < length; i++) {
```

```
    if (str.charAt(i) == search) {
```

```
        count++;
```

```
    }
```

```
}
```

```
System.out.println(count);
```

24. How to find out if the given two strings are anagrams or not?

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- Declare a boolean variable that tells at the end of the two strings are anagrams or not.
- First, check if the length of both strings is the same, if not, they cannot be anagrams.
- Convert both the strings to character arrays and then sort them.
- Check if the sorted arrays are equal. If they are equal, print anagrams, otherwise not anagram

```
boolean anagrmstat = false;
```

```
if (str.length() != reverse.length()) {
```

```
    System.out.println(str + " and " + reverse + " not anagrams string");
```

```
} else {
```

```
    char[] anagram1 = str.toCharArray();
```

```
    char[] anagram2 = reverse.toCharArray();
```

```
    Arrays.sort(anagram1);
```

```
    Arrays.sort(anagram2);
```

```
    anagrmstat = Arrays.equals(anagram1, anagram2);
```

```
}
```

```
if (anagrmstat == true) {
```

```
    System.out.println(" anagrams string");
```

```
} else {
```

```
    System.out.println(" not anagrams string");
```



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- Loop through the string.
- Increase the vowel variable by one whenever the character is found to be a vowel, using the if condition. Otherwise, increment the consonant variable.
- Print the values of both the vowel and the consonant count.

```
int vowels = 0;
```

```
int consonants = 0;
```

```
for (int k = 0; k < str.length(); k++) {
```

```
    char c = str.charAt(k);
```

```
    if (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u')
```

```
        vowels++;
```

```
    else
```

```
        consonants++;
```

```
}
```

```
System.out.println("Vowel count is " + vowels);
```

```
System.out.println("Consonant count is: " + consonants);
```

26. How do you get the matching elements in an integer array?

- Declare an array.
- Nest a couple of loops to compare the numbers with other numbers in the array.
- Print the matching elements if found.



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```
for (int n = m + 1; n < a.length; n++) {  
  
    if (a[m] == a[n])  
  
        System.out.print(a[m]);  
  
}  
  
}
```

27. How would you implement the bubble sort algorithm?

- Declare an array.
- Nest a couple of loops to compare the numbers in the array.
- The array will be sorted in ascending order by replacing the elements if found in any other order.

```
int[] a = { 1, 2, 7, 6, 4, 9, 12 };
```

```
for (int k = 0; k < a.length; k++) {
```

```
    for (int l = 0; l < a.length - l - 1; l++) {
```

```
        if (a[l] > a[l + 1]) {
```

```
            int t = a[l];
```

```
            a[l] = a[l + 1];
```

```
            a[l + 1] = t;
```

```
        }
```



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28. How would you implement the insertion sort algorithm?

- We assume the first element in the array to be sorted. The second element is stored separate the key. This sorts the first two elements. You can then take the third element and do a comparison with the ones on the left of it. This process will go on until a point where we sort array.

```
int[] a = { 1, 2, 7, 6, 4, 9, 12 };
```

```
for (int m = 1; m < a.length; m++) {
```

```
    int n = m;
```

```
    while (n > 0 && a[n - 1] > a[n]) {
```

```
        int k = a[n];
```

```
        a[n] = a[n - 1];
```

```
        a[n - 1] = k;
```

```
        n--;
```

```
    }
```

```
}
```

29. How do you reverse an array?

- Loop till the half-length of the array.



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```
for (int t = 0; t < a.length / 2; t++) {  
  
    int tmp = a[t];  
  
    a[t] = a[a.length - t - 1];  
  
    a[a.length - t - 1] = tmp;  
  
}
```

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30. How would you swap two numbers without using a third variable?

- Declare two variables and initialize them with values.
- Make b the sum of both numbers.
- Then subtract the sum (b) from a, so a is now swapped.
- Lastly, subtract a from the sum (b), so b is also swapped.

```
int a = 10;
```

```
int b = 20;
```

```
b = b + a; // now b is sum of both the numbers
```



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`u = u + a, // (u + a) = u + a (u is swapped)`

31. Print a Fibonacci series using recursion?

- The [Fibonacci](#) numbers are the numbers in the following integer sequence:

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144,

- We can calculate them using the mathematical formula used in the [Fibonacci recursive funct](#)

```
public static int fibonacci(int n) {
```

```
    if (n <= 1)
```

```
        return n;
```

```
    return fibonacci(n - 1) + fibonacci(n - 2);
```

```
}
```

```
public static void main(String args[]) {
```

```
    int n = 10;
```

```
    System.out.println(fibonacci(n));
```

```
}
```

32. How do you find the factorial of an integer?

- A factorial is a function that multiplies a number by every number below it. For example, $5! = 5 \times 4 \times 3 \times 2 \times 1 = 120$.
- Recursive function multiplies the numbers until it reaches 1.

```
public static long factorial(long n) {
```



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```
return i,  
  
else  
  
    return (n * factorial(n - 1));  
  
}
```

33. How do you reverse a Linked List?

- Declare a linked list.
- Add elements to that linked list.
- Apply the descending iterator method to the linked list.
- This reverses the order of elements in the linked list.

```
LinkedList<Integer> ll = new LinkedList<>();
```

```
ll.add(1);
```

```
ll.add(2);
```

```
ll.add(3);
```

```
System.out.println(ll);
```

```
LinkedList<Integer> ll1 = new LinkedList<>();
```

```
ll.descendingIterator().forEachRemaining(ll1::add);
```

```
System.out.println(ll1);
```



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34. How would you implement Binary Search?

- Binary search divides the array into half in every iteration step until it finds the element.
- It works on the sorted arrays since it compares the values of adjacent elements and then calculates the mid number.
- If the value of low becomes greater than high at any point, it means the element is not present in the list.

```
int mid = (low + high) / 2;
```

```
while (low <= high) {
```

```
    if (arr[mid] < key) {
```

```
        low = mid + 1;
```

```
    } else if (arr[mid] == key) {
```

```
        return mid;
```

```
    } else {
```

```
        high = mid - 1;
```

```
    }
```

```
    mid = (low + high) / 2;
```

```
}
```



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```
    return -1;  
  
}
```

```
return -1;
```

35. How would you find the second largest number in an array?

- Loop through the array.
- If the value of i is greater than the highest, store the value of i in highest, and store the value of highest in the second-highest variable.

```
private static int findSecondHighest(int[] array) {
```

```
    int highest = Integer.MIN_VALUE;
```

```
    int secondHighest = Integer.MIN_VALUE;
```

```
    for (int i : array) {
```

```
        if (i > highest) {
```

```
            secondHighest = highest;
```

```
            highest = i;
```

```
        } else if (i > secondHighest) {
```

```
            secondHighest = i;
```

```
        }
```

```
    }
```



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36. How do you remove all occurrences of a given character from the input string?

- Use the built-in string method “replace” to replace a character with any other character, including symbols and white spaces.

```
String str1 = "Australia";
```

```
str1 = str1.replace("a", "");
```

```
System.out.println(str1); // ustrli
```

37. Showcase Inheritance with the help of a program?

- The class Cat inherits the property color from the class Animal by extending the parent class (Animal).
- This way a class Cat can have more parent classes if it wishes to inherit their properties.

```
class Animal {
```

```
    String color;
```

```
}
```

```
class Cat extends Animal {
```

```
    void meow() {
```

```
        System.out.println("Meow");
```

```
    }
```

```
}
```

38. Explain overloading and overriding with the help of a program?



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When a class has two or more methods with the same name, they are called overloaded methods.

```
class Foo {  
  
    void print(String s) {  
  
        System.out.println(s);  
  
    }  
  
    void print(String s, int count) {  
  
        while (count > 0) {  
  
            System.out.println(s);  
  
            count--;  
  
        }  
  
    }  
  
}
```

Overriding:

When a superclass method is also implemented in the child class, it's a case of overriding.

```
class Base {  
  
    void printName() {  
  
        System.out.println("Base Class");  
  
    }  
  
}
```



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```
class Child extends Base {  
  
    @Override  
  
    void printName() {  
  
        System.out.println("Child Class");  
  
    }  
  
}
```

39. How do you check if the given number is prime?

- Use if statements to check for each condition separately:
 - If the number is 0 or 1, it cannot be prime.
 - If the number is 2, it is prime number.
 - If the number is indivisible by other numbers, it is prime.

```
public static boolean isPrime(int n) {  
  
    if (n == 0 || n == 1) {  
  
        return false;  
  
    }  
  
    if (n == 2) {  
  
        return true;  
  
    }  
  
}
```



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```
        return false;

    }

}

return true;

}
```

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40. How do you sum all the elements in an array?

- Use for loop to iterate through the array and keep adding the elements in that array.

```
int[] array = { 1, 2, 3, 4, 5};
```

```
int sum = 0;
```

```
for (int i : array)
```

```
    sum += i;
```

```
System.out.println(sum);
```

As you get prepared for your job interview, we hope that these Coding Interview Questions have provided more insight into what types of questions you are likely to come across.



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About the Author



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Taha is a Research Analyst at Simplilearn. He is passionate about building great user interfaces and keeps himself updated on the world of Artificial Intelligence. Taha is also interested in gaming and ph...

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**Terry Carnes Wilhelm** • 19 days ago

Computer programming is very, very complicated. It is unrealistic to expect someone to basically sit and repeat what you read in a text book as proof that they know how to program. You can't memorize it all anyway and what if the one question the manager asked was the one you didn't memorize? You don't get the job you are very qualified for?? The best interview I had was with a manager who gave me two long pages of code and asked me to tell him what the code was doing. I sat and read through it all and told him everything it was doing. I got the job. If I had been asked to write the same thing myself, during the interview, I would have flunked because I don't program from memorized textbook information. We use code reference material in common with energy, ingenuity, and persistence when working on a project.

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**Team Simplilearn** Mod → Terry Carnes Wilhelm • 17 days ago

Thanks for your valuable feedback, Terry.

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**Larry Oguora** • 19 days ago

I am currently learning python programming, these questions are supposed to be general programming questions but i am not familiar with most of it. what programming language are these questions centered on?

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**Team Simplilearn** Mod → Larry Oguora • 17 days ago

Hi Larry, these are generic coding interview questions based on fundamental concepts of programming.

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