**C/C++/Python/JAVA**

* Most of the questions in the C++ section were from classes (constructor, destructors, inheritance, virtual function), pointers and linked lists.
* prepared for this using cplusplus.com
* Questions from the Online coding challenge about how can you improve the given solution.
* Write code for any sorting algorithm? (bubble, selection, merge, etc.)
* Structures and Pointers
* Explain OOPS?
* What is encapsulation C/C++?
* What is function overloading?
* Polymorphism?
* HashMap vs HashTable
* Duplicate numbers
* Recursion
* implement Queue using Stack
* Code output questions based on const, static, class inheritance and Linked List Declaration.
* Find median of linked list
* stack parenthesis balancing(JAVA)
* some recursion problem
* math sort (python)
* On synchronized block, efficiency of two functions
* JVM garbage collector
* on inheritance (python)
* super (python)
* Valid parenthesis.
* Pointers, Inheritance - Virtual Functions, Constructors, Destructors and the like
* Data structures, Debugging, Language specific expertise and Design.
* (python) Classes,
* Constructors
* super
* packages vs Modules
* OOD questions
* How do you deep copy a graph (python)
* **linked lists**
* Mostly stressed on Fundamentals in Python and C++ in Telephonic Interview. Like define ambiguity in inheritance.
* What is OOPs?Example of polymorshism. What is Class Inheritance?
* How do you remove duplicates of array?Some ques 2-3 on whether the code will compile or not?Difference between && and &?
* next Largest permutation of string, object oriented programming.
* Queue using stacks, macros, , enum, OOD for restaurant reservations
* What is OOPS? advantages of OOPS? Explain inheritance briefly, algorithm for GCD of two numbers and to find its time complexity.
* tow coding question
* basic concepts about pointer, null pointer, class inheritance.
* - constructors/deconstructors
* - classes
* - inheritance
* - template classes
* - null pointers
* - call by value vs. call by reference

C++ specific

3. C++

a. Advantages of OOPS.

b. Polymorphism.

c. Why do we use pointers.

d. NULL pointers.

e. Call by value and call by reference.

f. Program on destructors.

g. Virtual destructors.

h. Private constructors.

i. Find duplicate elements in integer array.

C++: virtual function

Most of C++ questions were pointer based.

virtual functions and output of some code snippets;

A class implementation

pointer, enum -code debug

Given a random array of numbers. How do you sort them?Select any sorting algorithm and write the pseudo code.

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Select any sorting algorithm and write the pseudo code.(C)

String reversing, Printing largest value from the Hashmap and OOPS concepts.