

Samsung Software Engineer Interview

- 1) Write Bubble Sort algorithm?
- 2) About collage projects
- 3) Linked list, data structures, c, c++
- 4) Write a program to reverse a linked list.
- 5) Write a program to calculate the length of a very BIG linked list.
- 6) What is your dream Company?
- 7) Why Samsung?
- 8) puzzle based questions
- 9) data structures and algo
- 10) What's the most challenging project you did?
- 11) Tell me your approach of solving the coding test of Samsung
- 12) Questions on Backtracking, Recursion.
- 13) Machine Learning, Operating Systems, Data Structures, Algorithms, Database Management Systems, Puzzles and core Computer Science concepts.
- 14) Application where UDP used
- 15) BFS, DFS questions
- 16) Sorting questions, Heap related questions.
- 17) Explain Kadane Algorithm
- 18) Spiral array print question
- 19) questions about Design Patterns like what is singleton pattern. How to create a singleton class
- 20) write a code which gives output of New Delhi to weN ihleD
- 21) Find if the nodes in the binary tree are prime or not...Write code for the same
- 22) Structures in C and data types in data structures

A)

I applied through an employee referral. The process took 1 day. I interviewed at Samsung R&D Institute India - Bangalore (New Delhi).

Interview

Each round was an elimination round. I was in 6 months-1 Year experience group.

1) Aptitude Written Test: Questions from Data Interpretation and Logical Reasoning. Need to solve questions with good speed.

2) Technical Written: Everyone was allowed to choose one language from C, C++, Java. I chose C.

Test included 30 questions of objective type and time duration allotted was 60 minutes. Questions were of moderate level.

3) Technical Interview-I and II Questions:

1. Tell me about your project in which you have worked. Then there were more questions from my project. Project overview and conceptual knowledge is asked.

2. He drew a tree with some nodes, asked me to make a postorder traversal of it. Then asked to write a program for postorder traversal of binary tree using recursion.

3. Given a puzzle. A cuboid is given. Needed to find shortest distance (traversing on the surface) between diagonally opposite points of cuboid.

4. How to find a number is power of 2, using bitwise operator.

5. What is cache miss?

6. What are minor device number and major device number?

7. What is system call? What is mmap system call?

8. Who does conversion from virtual address to physical address?

9. Storage classes in C.

10. Memory layout of a program.

11. What is segmentation fault? Reason for its occurrence?

12. Prototype of malloc? Write a wrapper function for malloc, whose return type is void.

13. Dereferencing a void pointer, correct or not, why?

14. What are semaphore, mutex? What is difference between them?

15. Write program for your own sizeof operator.

16. Given a string "10000000". Give a string which is 2's complement of it.

17. What is priority queue?

I am forgetting some of questions. But they were from either C or OS

B)

Then First face to face round. They asked about C memory map, difference between global and static variables, volatile keyword. Program for string reversal (both recursive and iterative implementation), How to get to middle node of linked list in one go. basic binary search tree problems

Second round was more like a managerial round.

They asked only two tricky questions based on structure size (basic understanding of bit padding was tested) and union size and pointer understanding.

Both questions could be answered easily if one has good knowledge on C. Show Less

C)

Basic questions on Java, DS, Algo. The questions were simple as I was a fresher.

The questions were mainly based on Os, Networking, DS, Algo, Java, C, C++.

D)

They asked about multiple inheritance, polymorphism, real life example on these, virtual functions, etc. Also asked about my projects.

E)

they asked me

1. count number of zeros in binary representation of a character
2. some ds questions traversal of a tree
3. some networking questions osi reference model and functions of each layer and protocols
4. a puzzle

F)

He asked me to design Pentium 4 structure. Given a group of array in which elements are duplicate, you need to detect the duplicate element and then delete it. What mechanism will u implement and using what kind of Data Structure.

G)

Interview -

1. Technical - Most of the questions were from pointers and memory management in C. double linked list, function pointers, storage class in c, big O notation and gave few algo to find there time complexity.dangling pointer,memory leak,how malloc() work. write code to implement login functionality of a website. he was very impressed by my answers :)

2. Technical (Manager) - Since my first round was very good, this round was just formality. He asked me about my area of interest,my experience in last organization and hobbies.

3. HR - formal HR questions.

H)

Interview

1. Basic of C like pointers

2. Pass by value pass by reference

3. Android Bootup process

4. Android Hardware experience

5. More emphasis on Basics

6. Interviewers are selected based on your skill set

2nd round

1. Coding on paper
2. Diagrammatic explanation asked
3. Real life scenarios and your out of box thinking on the same

Interview Questions

Android Bootup process using diagrammatical representation