

Amazon Interview Experience | Set 269 (1 year experienced for SDE-1)

Online Round: 2 Programming questions for 2 Hours

1. **Convert set of strings in number** as given on phone keypad. String will contain only lower case characters. Print these strings with numbers in descending order of numbers, if numbers are same then **lexicographical order of strings**.

Input: amazon, rat, pat

Output: 262966 amazon

728 pat

728 rat

2. In a $M \times N$ maze you can move in any direction(left, right, up, down). There are bomb on some positions. Starting from (0,0) find the number of moves require to exit from the maze. Exit point is (m-1, n-1). If its not possible then return -1. Similar to **Minesweeper Game**.

1st Round(F2F) 1hr:

Ask everything about project working at current company.

1. <https://www.careercup.com/question?id=7449675> in-place. Had to write proper code for it.

2nd Round(F2F) 1hr:

Asked everything about project and lots of cross questions on the same. Interviewer gave me lots of scenarios related to my project and ask to solve then.

1. <http://www.geeksforgeeks.org/sort-an-array-of-0s-1s-and-2s/> in place. He asked me if i knew the question, I said yes. Then he told me to write code covering all corner cases.

3rd Round(F2F) 1hr:

1. <http://www.geeksforgeeks.org/find-a-pair-with-given-sum-in-bst/> . Asked all possible solutions and then asked to write code for it.

2. <http://www.geeksforgeeks.org/merging-intervals/>. Code for it.
3. <http://stackoverflow.com/questions/14094914/count-the-number-of-occurrences-of-a-number-in-a-sorted-array>. $O(n \log n)$. Asked to explain the solution then to write the code.

4th Round(F2F) 2hr:

1. Correct a deformed BST. All kind of approaches and proper reasoning for each. Then asked to write the code.
2. Array question. similar to <http://www.geeksforgeeks.org/given-a-string-find-its-first-non-repeating-character/>.
3. <http://www.geeksforgeeks.org/level-order-traversal-in-spiral-form/>.

All the interviewers were very helpful. In all rounds for every question they were looking for what kind of approach you are going to use and proper reasoning for the same. Not just coding, neat and efficient coding was required because for each question at the end you have to code and they expect you not to miss edge cases.

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3.6

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**qy** · 2 days ago

Thank you a lot for sharing your experience!

I want to ask there are only 2 questions in online assessment, right? I have heard there are 3 sections in online assessment, just want to make sure because I received an online assessment 2 days ago and need to finish it in 3 days~

 |  · Reply · Share ›**Atinesh Si** · 4 days ago

Do we have to give Psuedocode or Code in a particular language like C, Python, Java etc

 |  · Reply · Share ›**soumyajit bhattacharyay** · 4 days ago

hey one thing by number of moves do you mean number of paths possible or just the moves to reach the end of the matrix?

 |  · Reply · Share ›**Ankita** · 4 days ago

First of all, thanks for sharing detailed experience. Can you please tell how did you apply for the interview?

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 |  · Reply · Share ›**Ankita** → Saurabh Suman · 4 days ago

And while having a full-time job, how many hours daily did you manage for preparing?

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