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Amazon Interview Experience for SDE-1 | 6-Months Intern (On-Campus)

- Difficulty Level :\nMedium
- Last Updated :\n17 Sep, 2021

Round 1: An online assessment that consisted of four parts:

- **Code Debugging:** 7 questions to be debugged in 20 minutes. (easy-medium)
- **Coding Test:** 2 coding questions to be solved in 70 minutes. (medium)
- **Workstyles assessment:** 20minutes
- **Reasoning ability:** 35 minutes (easy-medium)

38 members were shortlisted for the interviews.

Round 2: It was a technical interview for 1 hour. The interviewer gave her an introduction and asked about me. Then I was given the following questions.

1. https://www.geeksforgeeks.org/word-break-problem-dp-32/. Asked me to discuss the time and space complexity of my approach and then to code.
2. https://www.geeksforgeeks.org/trapping-rain-water/. I was able to solve this easily and discussed the time and space complexity.

Around 12 members were shortlisted for TR-2

Round 3: It was a technical interview for 1 hour. \xc2\xa0After a brief introduction the interviewer asked the following question:\xc2\xa0

1. Given a binary tree, return the sum of all the nodes whose Kth parent (Kth ancestor) value is even. Where 0 < \xc2\xa0K < 10^7.

   Example:

   ```
   K=2\r\n    8\r\n   /   \\\r\n  2    3\r\n / \\    \\\r\n4   5   7\r\n \\      /\r\n  6    1
   ```

   - The 2nd ancestor of 4 , 5 ,7 is 8 and 8 is even
   - The 2nd ancestor of 6 is 2 and 2 is even
   - The 2nd ancestor of 1 is 3 and 3 is odd

Finally, I wrote a code with linear time complexity using post-order traversal.

VERDICT: **SELECTED**

THANK YOU SO MUCH GFG TEAM\xe2\x80\xa6

My Personal Notes\narrow_drop_up

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