

He said the approach is right but he does not want to use map/stack or any derived DS. Use only primitive DS. Solved it using arrays. I gave a case where the map-stack approach

would be more optimized. So he told me to analyze both the approaches w.r.t. time and space and explain why it is so.

Time and space for both approaches were  $O(\log(n))$  for the worst case. For average cases and in runtime map-stack would be more optimized and he agreed on it. He asked me to code any of the 2 approaches. I coded the array one as it was simpler to implement. Then he asked if I had any ques and concluded the interview.

### Round 3(Technical 2) remotely

No intro, no small talk, straight to coding

1. <https://www.geeksforgeeks.org/count-distinct-elements-in-every-window-of-size-k/>

No constraints on k & N and was told to handle all possible corner cases.

Discussed approach -> coded it -> approved -> discussed time complexity and why it is  $O(n)$

2. <https://www.geeksforgeeks.org/convert-a-given-tree-to-sum-tree/>

Explained approach -> she asked which traversal will be used and why -> postorder as we calculate left and right child first and then process root -> coded it -> approved

3. <https://www.geeksforgeeks.org/trapping-rain-water/>

Gave the solution with 2 arrays i.e. left-max & right-max. She told me to do it in a single extra array. Did after taking 5 mins. Then she told me to do it in constant space.

I didn't think that was even possible. After trying for 10-12 mins I told her I am getting nowhere. She told me to code the single-array approach.

Coded it -> had some logical mistakes -> she gave a direction what the error can be and did a dry run together -> solved it after some time and code was approved.

She told me we have some time to think about how to do it in constant space. 10 mins later, the time was up I did not come up with anything and the Interview was over,

NO projects, subjects, HR questions

Verdict :- Selected

My Personal Notes

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