

Chapter 4. Problem Solving

1. Reverse 2 or more consecutive odd numbers containing nodes in a linked list.
2. Find 2nd maximum using 1 loop(O(N)) in an array.
3. Find the largest window sum in an array.
4. Find the largest window sum in an array.
5. Find a reflection BST tree.
6. Find whether a linked list is circular or not.
7. Detect the cycle in a linked list.
8. Find the first non repeated element in a string.
9. Write Down the recursive code for fibonacci series.
10. How to traverse Bubble Sort and Selection Sort?
11. Write down the code for merge sort.
12. Delete a node of linked list without knowing the head of it.
13. You are given a singly linked list e.g 1->2->3->4->5. Suppose that your head is pointing on 4. You have to delete the 5th Node. Note: You cannot move the pointer backwards.
14. You have two unsorted arrays. You have to merge two arrays in the sorted manner.
(Need Best Solution).
15. Check if the given string is palindrome or not?
16. You are given an array. Find the pair of numbers whose sum is equal to 5.
17. You are given a linked list with a head pointer only. Your task is to add a new node to the linked list at the end. (Note: You have only one pointer pointing at head)
E.g 1->2->3->4->5

New node will be appended after 5.

Chapter 5. Some Interview Questions & Tips

1. Interviews usually start with the question Tell us something about yourself. This is the very beginning of your interview where you have to be very precise about your answer because interviewers are expecting many things from you out of this question.

Your answer should reflect:

- Your Information
- Your past education
- Your FYP (optional)
- Your past industrial experience

If you don't have any industrial experience then mention your FYP and self projects and learnings.

2. Try to get to know about the company for which you are applying and before appearing in the interview. Get to know about them by visiting their website or linkedIn profiles. This will help you to answer the question “*What do you know about us?*”

3. Why do you want to work here?

- 4.** Be confident. Confidence is the key to pass an interview.
- 5.** Stick to the point. Try to avoid narrating stories rather than actual answers.
- 6.** Don't hesitate to tell interviews you don't know the answer. Just be formal saying "I am not sure about the answer for this question but I'll go through it later".
- 7.** Interviewers Usually end the interview by asking you "Do you have any questions?". Try to show them your interest. Come up with the questions and feel free to ask them.