Must know String algorithms and problems to Ace the Technical Interview at Big-Tech companies:  
  
Must know Algorithms:  
  
1. KMP pattern matching algorithm  
  
2. Boyer Moore - Bad character Heuristic  
  
3. Z algorithm  
  
4. Manachers algorithm  
  
5. Rabin Carp sub-string pattern search  
  
6. Wildcard pattern matching  
  
  
Few Good Problems:  
  
1. Check if string is palindrome.  
  
2. Check if two strings are anagram of each other.  
  
3. Reverse a string.  
  
4. Find all permutations of given string.  
  
5. Longest palindromic sub-string.  
  
6. Longest palindromic sub-sequence.  
  
7. Longest common sub-sequence.  
  
8. Multiply two string.  
  
9. Convert Integer to Roman/ Roman to  
Integer.  
  
10. Edit Distance problem.  
  
11. Remove minimum characters to make a string palindrome (variation of Problem 6).  
  
12. Check if given string is rotation of palindrome.  
  
13. Print all palindromic partitions of given string.  
  
14. Find lexicographical Rank of given string.  
  
15. Run length encoding.  
  
16. Huffman encoding.  
  
17. Excel column name from given column number.  
  
18. Infix to Postfix conversion.  
  
19. Check if given string is prefix of set of strings (Use tries here).  
  
20. Recursively remove all adjacent duplicates.  
  
  
Data structures to know:  
  
1. Maps/Sets  
  
2. Tries  
  
  
Techniques to know:  
  
1. Buffering (String Builder/String Buffer in Java)  
  
2. Recursion  
  
  
If I missed anything, please add in the comments 👇  
  
Follow [Shivam Saini](https://www.linkedin.com/in/ACoAADDqPx4Bn5okt1uFKg0QrZf2taZ7DiOWOAg) for more 🙌