

# ZOHO CHEATSHEET

## Zoho Cheatsheet

Interview cheatsheet to clear the Developer role

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<https://www.linkedin.com/in/nandhini-raja-8b71b4143/>

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**Watch this video to understand the strategy to use this cheatsheet -**

<https://youtu.be/SvwAj2uawUc> - Super important to use this sheet properly

### Interview rounds - 5 rounds

Most of the candidates have had 5 rounds of interviews, as per their interview experience.

- Assessment round - Aptitude, MCQ
- Programming - coding
- Programming - LLD
- Tech
- Managerial

### Assessment

A total 25 questions are being given - 10-15 aptitude and the remaining output-based

Aptitude, Output, Test error

Check out the video for the topics to cover.

### CODING ROUND: Super Important

Checkout the video to understand the strategy

Curious Freaks coding sheet -

[https://docs.google.com/spreadsheets/d/1P3RXgZju\\_2OzZyJaRtu6D3Kx-Eks38X09\\_zJ8aj2zy8/edit#gid=0](https://docs.google.com/spreadsheets/d/1P3RXgZju_2OzZyJaRtu6D3Kx-Eks38X09_zJ8aj2zy8/edit#gid=0) - Start from basic and cover till Sliding window in the sheet before you start the below problems.

[https://www.geeksforgeeks.org/explore?page=4&company=Zoho&sortBy=submissions&itm\\_source=geeksforgeeks&itm\\_medium=main\\_header&itm\\_campaign=practice\\_header](https://www.geeksforgeeks.org/explore?page=4&company=Zoho&sortBy=submissions&itm_source=geeksforgeeks&itm_medium=main_header&itm_campaign=practice_header)

1. [Diamond pattern](#) -> Try to solve few pattern questions
2. [Given an array of numbers. Print the numbers without duplication.](#)
3. [Sort the array odd numbers in ascending and even numbers in descending.](#)
4. <https://www.geeksforgeeks.org/find-number-currency-notes-sum-upto-given-amount/>
5. <https://www.geeksforgeeks.org/program-to-convert-hexadecimal-number-to-binary/>

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6. <https://www.geeksforgeeks.org/convert-binary-number-hexadecimal-number/>
7. [Sort the array elements in descending order according to their frequency of occurrence](#)
8. [Print true if second string is a substring of first string, else print false.](#)
9. [Find the least prime number that can be added with first array element that makes them divisible by second array elements at respective index](#)
10. [Prime number – print n prime numbers](#)
11. [Prime factor – sort the array based on the minimum factor they have](#)
12. [TWISTED PRIME NUMBER](#)
13. [Find the prime number in the given range.](#) (test cases: interval is negative in range)
14. [Find the extra element and its index](#)
15. [Move Zeroes to End of Array](#)
16. [Find Element Appears Once](#)
17. <https://leetcode.com/problems/single-number-ii/description/>
18. [Transform String](#)
19. [Missing Number](#)
20. [STRING MANIPULATIONS](#)
21. [MATRIX SORTING](#)
22. [https://www.geeksforgeeks.org/problems/count-possible-triangles-1587115620/1?itm\\_source=geeksforgeeks&itm\\_medium=article&itm\\_campaign=bottom\\_sticky\\_on\\_article](https://www.geeksforgeeks.org/problems/count-possible-triangles-1587115620/1?itm_source=geeksforgeeks&itm_medium=article&itm_campaign=bottom_sticky_on_article)
23. [Sort the given elements in descending order based on the number of factors of each element](#)
24. [Find whether the given number is palindrome or not. Don't use arrays or strings](#)
25. [Reverse the given string keeping the position of special characters intact](#)
26. [Decode a string recursively encoded as count followed by substring.](#)
27. [Given an array of integers of size n. Convert the array in such a way that if next valid number is same as current number, double its value and replace the next number with 0.](#)
28. [Given an array A\[\] and a number x, check for pair in A\[\] with sum as x.](#)
29. [Kadane' Algorithm](#)
30. [Given an input string and a dictionary of words, find out if the input string can be segmented into a space-separated sequence of dictionary words](#)
31. [Given two Strings s1 and s2, remove all the characters from s1 which is present in s2.](#)
32. [Find the next greater element for each element in given array.](#)
33. [Given a number, find the next smallest palindrome.](#)
34. [Given an array with repeated numbers, Find the top three repeated numbers](#)
35. [Given two dates, find total number of days between them.](#)
36. [Let 1 represent 'A', 2 represents 'B', etc. Given a digit sequence, count the number of possible decodings of the given digit sequence.](#)
37. [Print all possible words from phone digits](#)
38. [Given two dimensional matrix of integer and print the rectangle can be formed using given indices and also find the sum of the elements in the rectangle](#)
39. [Given two dates, find total number of days between them.](#)
40. [Let 1 represent 'A', 2 represents 'B', etc. Given a digit sequence, count the number of possible decodings of the given digit sequence.](#)
41. [array of numbers were given to find a number which has same sum of numbers in it's either side.](#)
42. Adding a digit to all the digits of a number eg digit=4, number = 2875, o/p= 612119
43. <https://leetcode.com/problems/add-digits/description/>
44. [Form the largest possible number using the array of numbers.](#)
45. [Lexicographic sorting.](#)
46. Given a set of numbers and a digit in each iteration, if the digit exists in any of the numbers, remove its occurrences and ask for the next digit till the list becomes empty.

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47. Check if a number 'a' is present in another number 'b'.
48. <https://leetcode.com/problems/maximum-product-of-three-numbers/description/>
49. [Numbers whose sum is closest to zero in an array](#)
50. [Find palindrome word in sentences.](#)
51. [Pangram Checking](#)
52. Given two strings, find the first occurrence of all characters of second string in the first string and print the characters between the least and the highest index
53. [Matrix Diagonal sum](#)
54. [Matrix Addition](#)
55. Given a timeline of scores, find the individual scores of player 1 and player 2 and Extras  
W – Wide N – No Ball . – Dot Ball
56. [Given a range of numbers print the numbers such that they are shuffled](#)
57. Insert 0 after consecutive (K times) of 1 is found
58. [To calculate strength of the password string using some predefined rules given in the question](#)
59. [Given four points. We have to say whether it is square or rectangle or any other shape](#)
60. [Given a large number convert it to the base 7.](#)
61. [Sort parts of an array separately using peak values.](#)
62. [Given an input array, find the number of occurrences of a particular number without looping \(use hashing\)](#)
63. [Given an array of characters print the characters that have 'n' number of occurrences. If a character appears consecutively it is counted as 1 occurrence](#)
64. [Find the second maximum among the given numbers.](#)
65. [Given a two dimensional array which consists of only 0's and 1's. Print the matrix without duplication.](#)
66. [Given an array of positive numbers. Print the numbers which have longest continuous range.](#)
67. [Given two arrays. Find its union.](#)
68. [Climbing Stairs](#)
69. [Group Anagrams](#)
70. [Given an array of numbers and a number k. Print the maximum possible k digit number which can be formed using given numbers.](#)
71. [Given an array of numbers and a window of size k. Print the maximum of numbers inside the window for each step as the window moves from the beginning of the array.](#)
72. [Search a string in a given 2D matrix.](#)
73. [Find the number of rectangles filled with 1s in a matrix](#)
74. [Given a string, reverse only vowels in it;](#)
75. [Write a program to check if the given words are present in matrix given below.](#)
76. [Given 2 huge numbers as separate digits, store them in array and process them and calculate the sum of 2 numbers and store the result in an array and print the sum.](#)
77. [Given sorted array check if two numbers sum in it is a given](#)
78. [Given array find maximum sum of contiguous sub array](#)
79. [Given unsorted array find all combination of the element for a given sum.](#)
80. [Given an odd length word which should be printed from the middle of the word.](#)
81. [Given an IP address validate it based on the given conditions.](#)
82. [LRU Cache](#)
83. [Given an array of positive integers. The output should be the number of occurrences of each number.](#)
84. [Given an array, find the minimum of all the greater numbers for each element in the array.](#)

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85. Given a  $N \times N$  binary matrix and the co-ordinate points of start and destination, find the number of possible path between them.
86. [Find the largest sum contiguous subarray which should not have negative numbers](#)
87. [Given a string, we have to reverse the string without changing the position of punctuations and spaces.](#)
88. Given a 2D grid of characters, you have to search for all the words in a dictionary by moving only along two directions, either right or down. Print the word if it occurs.
89. [Given a string, change the order of words in the string \(last string should come first\).](#)
90. [Find the shortest path from one element to another element in a matrix using right and down moves alone.](#)
91. [Write a program to rotate an  \$n \times n\$  matrix 90, 180, 270, 360 degree.](#)
92. [Print longest sequence between same character](#)
93. [Check whether a string is a subsequence of another or not.](#)
94. <https://leetcode.com/problems/decode-ways/>
95. <https://leetcode.com/problems/most-common-word/>
96. <https://leetcode.com/problems/longest-increasing-subsequence/>
97. [Wildcard Pattern Matching](#)
98. [There are  \$n\$  items each with a value and weight. A sack is filled with the weights. In other words there is an array with of length  \$n\$  having the values of the items  \$arr\[0 \dots n-1\]\$  and another array with weight  \$arr\[0 \dots n-1\]\$ .](#)
99. [https://www.geeksforgeeks.org/number-cells-queen-can-move-obstacles-chessboard](https://www.geeksforgeeks.org/number-cells-queen-can-move-obstacles-chessboard/)
100. [https://www.geeksforgeeks.org/word-ladder-length-of-shortest-chain-to-reach-a-target-word](https://www.geeksforgeeks.org/word-ladder-length-of-shortest-chain-to-reach-a-target-word/)
101. [https://www.geeksforgeeks.org/distinct-permutations-string-set-2](https://www.geeksforgeeks.org/distinct-permutations-string-set-2/)
102. <https://www.geeksforgeeks.org/job-sequencing-problem-set-1-greedy-algorithm/>
103. <https://leetcode.com/problems/string-transformation/description/>
104. [https://www.geeksforgeeks.org/number-cells-queen-can-move-obstacles-chessboard](https://www.geeksforgeeks.org/number-cells-queen-can-move-obstacles-chessboard/)

## Technical Round - LLD Oriented

These are standard LLD questions, search on YouTube to find solutions for the questions and do a Google search to find solutions, you can easily find articles or blog posts on the solution.

### OOPS concepts

1. Parking management system
2. Bank management
3. Employee management system
4. Lift system
5. Railway ticket booking application
6. TAXI BOOKING SYSTEM
7. GAMES(SUDOKO, N-QUEENS , KNIGHTS , SNAKE AND LADDER, Minesweeper, Breakout a.k.a. Arkanoid a.k.a. Brick-Breaker)
8. Bus Ticket Booking System
9. Elevator
10. Flight Reservation system
11. Chess tournament
12. Mail server
13. Invoice Management

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## 14. TOLL PAYMENT PROCESSING

Common LLD Questions to practice

<https://github.com/kumaransg/LLD>

<https://www.educative.io/blog/top-10-system-design-interview-questions>

### **Behavioral Interview**

<https://leetcode.com/discuss/interview-experience/1532708/tips-for-answering-few-tricky-behavioral-interview-questions>