

Array

Intermediate level Questions:

1. Find the Union and Intersection of the two sorted arrays.

[practice here: <https://practice.geeksforgeeks.org/problems/union-of-two-arrays/0>]

2. Write a program to cyclically rotate an array by one.

[Practice here: <https://practice.geeksforgeeks.org/problems/cyclically-rotate-an-array-by-one/0>]

3. You are given a list of $n-1$ integers and these integers are in the range of 1 to n . There are no duplicates in the list. One of the integers is missing in the list. Write an efficient code to find the missing integer.

[Practice here: <https://practice.geeksforgeeks.org/problems/missing-number-in-array/0>]

4. Find all pairs on integer array whose sum is equal to given number.

[Practice here: <https://practice.geeksforgeeks.org/problems/count-pairs-with-given-sum/0>]

 Find duplicates in an array.

[Practice here : <https://practice.geeksforgeeks.org/problems/find-duplicates-in-an-array/1>]

6. Sort an Array using Quicksort algorithm.

[Follow link: <https://www.geeksforgeeks.org/quick-sort/>]

7. Find common elements in three sorted arrays

[Practice here: <https://practice.geeksforgeeks.org/problems/common-elements/0>]

● 8. Find the first repeating element in an array of integers.

● [Practice here: <https://practice.geeksforgeeks.org/problems/first-repeating-element/0>]

● 9. Find the first non-repeating element in a given array of integers.

[Solution: <https://www.geeksforgeeks.org/non-repeating-element/>]

● **10. Given an array with all distinct elements, find the largest three elements. Expected time complexity is $O(n)$ and extra space is $O(1)$.**

Input: `arr[] = {10, 4, 3, 50, 23, 90}`

Output: 90, 50, 23

11. Rearrange the array in alternating positive and negative items with $O(1)$ extra space. [follow link : <https://www.geeksforgeeks.org/rearrange-array-alternating-positive-negative-items-o1-extra-space/>]

12. Find if there is any subarray with sum equal to zero
[Practice here: <https://practice.geeksforgeeks.org/problems/subarray-with-0-sum/0>]

13. Find Largest sum contiguous Subarray. [Very Important]
[Practice here: <https://practice.geeksforgeeks.org/problems/kadanes-algorithm/0>]

14. Find the factorial of a large number.
[Practice here: <https://practice.geeksforgeeks.org/problems/factorials-of-large-numbers/0>]

15. Find Maximum Product Subarray.
[Practice here: <https://practice.geeksforgeeks.org/problems/maximum-product-subarray/0>]

16. Find longest consecutive subsequence.
[Practice here: <https://practice.geeksforgeeks.org/problems/longest-consecutive-subsequence/0>]

17. Find the minimum element in a rotated and sorted array.
[Practice here: <https://practice.geeksforgeeks.org/problems/minimum-element-in-a-sorted-and-rotated-array/0>]

18. Given an array of size n and a number k , find all elements that appear more than n/k times.
[Practice here: <https://practice.geeksforgeeks.org/problems/count-element-occurrences/1>]

19. GCD of given index ranges in an array
[Solution : <https://www.geeksforgeeks.org/gcds-of-a-given-index-ranges-in-an-array/>]

20. Maximum profit by buying and selling a share at most twice.
[Practice here : <https://www.geeksforgeeks.org/maximum-profit-by-buying-and-selling-a-share-at-most-twice/>]

21. Minimize the maximum difference between the heights.

[*ADOBE spl.*]

[Practice here: <https://practice.geeksforgeeks.org/problems/minimize-the-heights/0>]

22. Minimum number of Jumps to reach end.

[Practice here: <https://practice.geeksforgeeks.org/problems/minimum-number-of-jumps/0>]

23. Find the two repetitive elements in a given array.

[Practice here: <https://practice.geeksforgeeks.org/problems/two-repeated-elements/0>]

24. Find a triplet that sum to a given value.

[Practice here: <https://practice.geeksforgeeks.org/problems/triplet-sum-in-array/0>]

25. Create an N*M matrix and take input from the user to populate it and then print the matrix

26. Find the row with maximum number of 1's.

[Practice here: <https://practice.geeksforgeeks.org/problems/row-with-max-1s/0>]

27. Find the median in a row wise sorted matrix.

[Practice here: <https://practice.geeksforgeeks.org/problems/median-in-a-row-wise-sorted-matrix/0>]

28. Print the matrix in a Spiral manner. [*Very IMP*]

[Practice here: <https://practice.geeksforgeeks.org/problems/spirally-traversing-a-matrix/0>]

29. Find whether an array is a subset of another array.

[Practice here: <https://practice.geeksforgeeks.org/problems/array-subset-of-another-array/0>]

30. Implement two Stacks in an array.

[Practice here: <https://practice.geeksforgeeks.org/problems/implement-two-stacks-in-an-array/1>]