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]

5. **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).

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Input: arr[] = {10, 4, 3, 50, 23, 90}
Output: 90, 50, 23
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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 zer
[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, fin all elements that appear more than n/k times**.
[Practice here: https://practice.geeksforgeeks.org/problems/count-element-occurences/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]