

Questions for practice -

Reverse the array

Arrange the elements such that positive and negative numbers are in alternate positions

Arrange the elements such that odd numbers are before the even numbers (2 variations - same order or order can be different)

find min,max of array

Find 3rd max number in array (without sorting)

Find duplicate in array (1-n)

Find repeating and missing number

Find majority element (element present $>n/2$ times)

Union and intersection of 2 arrays

Max product subarray,subsequence

Implement linear search

Implement binary search

Search in rotated sorted array

Find sqrt of number

Book allocation, aggressive cows, painters problem

Median of 2 arrays(same | different size)

Implement bubble, selection, insertion sort

Implement merge and quick sort

Implement count sort

Sort array of 0,1,2 only -

Three way partitioning

Inversion count

Union intersection of 2 sorted arrays

Merge 2 sorted arrays without extra space

K-th element of two sorted arrays

Merge overlapping intervals

Remove duplicate from sorted arrays

Largest consecutive subsequence

Kadane's algorithm

Trapping rainwater problem

Stock buy sell problems

Max subarray sum circular

Find sum in a range in constant time

Update in a range also

Matrix - transpose, rotation, print spiral, staircase search

Set matrix zero

Median of row wise sorted matrix

Kth smallest element

Max sum subarray of size k

Max continuous number of 1's

k-th root of an integer (use binary search) (square root, cube root, ..)

Unique number - I, II, III

Extra Questions -

<https://practice.geeksforgeeks.org/problems/product-array-puzzle4525/1>

<https://practice.geeksforgeeks.org/problems/sort-by-set-bit-count1153/1>

<https://www.hackerearth.com/practice/algorithms/searching/binary-search/practice-problems/algorithm/bishu-and-soldiers/>

<https://practice.geeksforgeeks.org/problems/smallest-factorial-number5929/1>

<https://practice.geeksforgeeks.org/problems/arithmetic-number2815/1>

<https://www.geeksforgeeks.org/given-an-array-of-of-size-n-finds-all-the-elements-that-appear-more-than-nk-times/>

<https://practice.geeksforgeeks.org/problems/chocolate-distribution-problem/0>

<https://practice.geeksforgeeks.org/problems/smallest-subarray-with-sum-greater-than-x/0>

<https://practice.geeksforgeeks.org/problems/minimum-swaps/1>

Minimum-swaps-required-to-bring-all-elements-less-than-or-equal-to-k-together

<https://www.geeksforgeeks.org/find-a-specific-pair-in-matrix/>

<https://practice.geeksforgeeks.org/problems/max-rectangle/1>

<https://practice.geeksforgeeks.org/problems/sorted-matrix/0>

<https://practice.geeksforgeeks.org/problems/number-of-subsets-and-mean1225/1>

<https://www.geeksforgeeks.org/searching-array-adjacent-differ-k/>

<https://www.geeksforgeeks.org/optimum-location-point-minimize-total-distance/#:~:text=We%20need%20to%20find%20a,set%20of%20points%20is%20minimum.&text=In%20above%20figure%20optimum%20location,is%20minimum%20obtainable%20total%20distance.>

<https://www.spoj.com/problems/PRATA/>

<https://www.spoj.com/problems/ANARC05B/>

<https://www.spoj.com/problems/SUBSUMS/>

<https://www.geeksforgeeks.org/in-place-merge-sort/>
