<https://www.geeksforgeeks.org/sde-sheet-a-complete-guide-for-sde-preparation/?ref=ghb>

ARRAY ====

unordered\_map<**int**, **int**> mp;

**for** (**int** i = 0; i < N; i++)

        mp[arr1[i]]++;

<https://www.geeksforgeeks.org/stock-buy-sell/>

<https://www.geeksforgeeks.org/trapping-rain-water/>

<https://www.geeksforgeeks.org/minimum-number-platforms-required-railwaybus-station/>

Searching and Sorting ===

**int** findPivot(**int** arr[], **int** low, **int** high)

{

    // Base cases

**if** (high < low)

**return** -1;

**if** (high == low)

**return** low;

    // low + (high - low)/2;

**int** mid = (low + high) / 2;

**if** (mid < high && arr[mid] > arr[mid + 1])

**return** mid;

**if** (mid > low && arr[mid] < arr[mid - 1])

**return** (mid - 1);

**if** (arr[low] >= arr[mid])

**return** findPivot(arr, low, mid - 1);

**return** findPivot(arr, mid + 1, high);

}

<https://www.geeksforgeeks.org/counting-inversions/>

<https://www.geeksforgeeks.org/allocate-minimum-number-pages/>

<https://www.geeksforgeeks.org/kth-smallestlargest-element-unsorted-array/>

<https://www.geeksforgeeks.org/quick-sort/>

HASHING =====

STACK AND Q ===