Count More than n/k Occurences

Easy Accuracy: 58.35% Submissions: 39944 Points: 2

Given an array arr[] of size N and an element k. The task is to find all elements in array that appear more than n/k times.

Example 1:

Input:

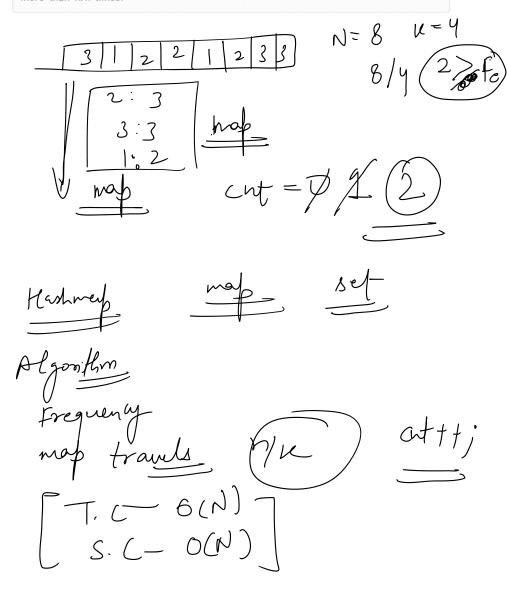
N = 8

arr[] = {3,1,2,2,1,2,3,3}

k = 4

Output: 2

Explanation: In the given array, 3 and 2 are the only elements that appears more than n/k times.

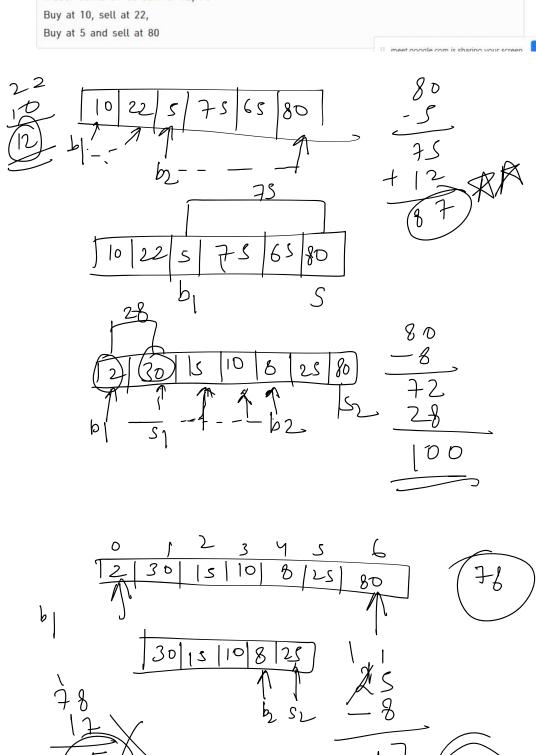


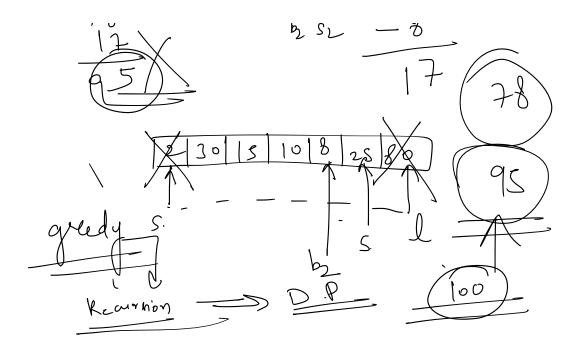
In daily share trading, a buyer buys shares in the morning and sells them on the same day. If the trader is allowed to make at most 2 transactions in a day, the second transaction can only start after the first one is complete (Buy->sell->Buy->sell). The stock prices throughout the day are represented in the form of an array of **prices**.

Given an array **price** of size **N**, find out the **maximum** profit that a share trader could have made.

Example 1:



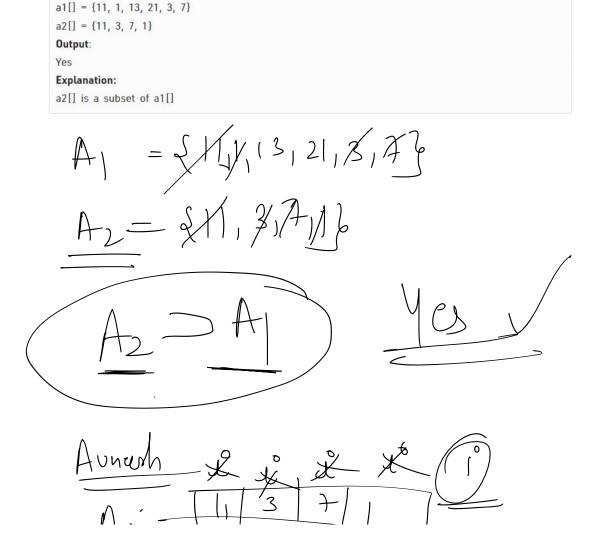


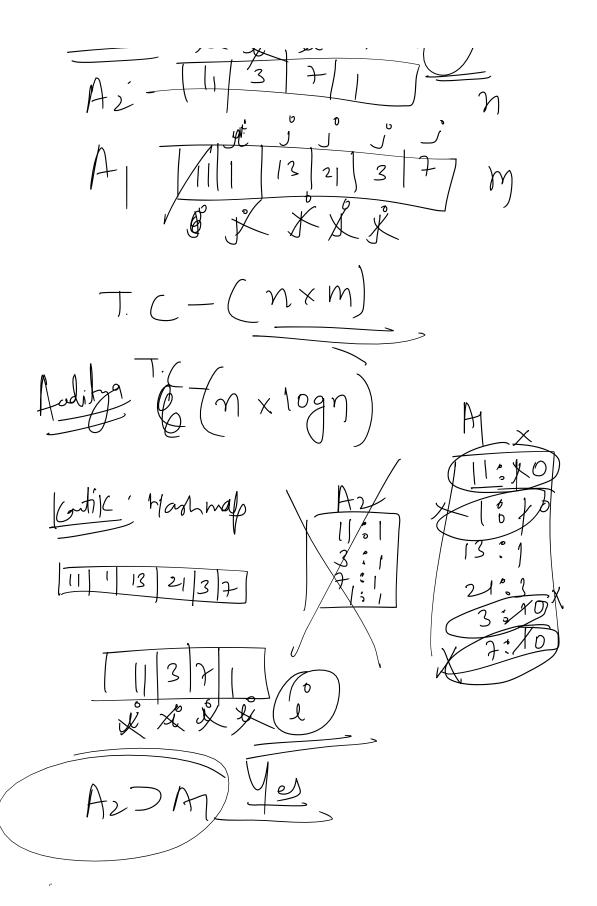


Given two arrays: a1[0..n-1] of size n and a2[0..m-1] of size m. Task is to check whether a2[] is a subset of a1[] or not. Both the arrays can be sorted or unsorted.

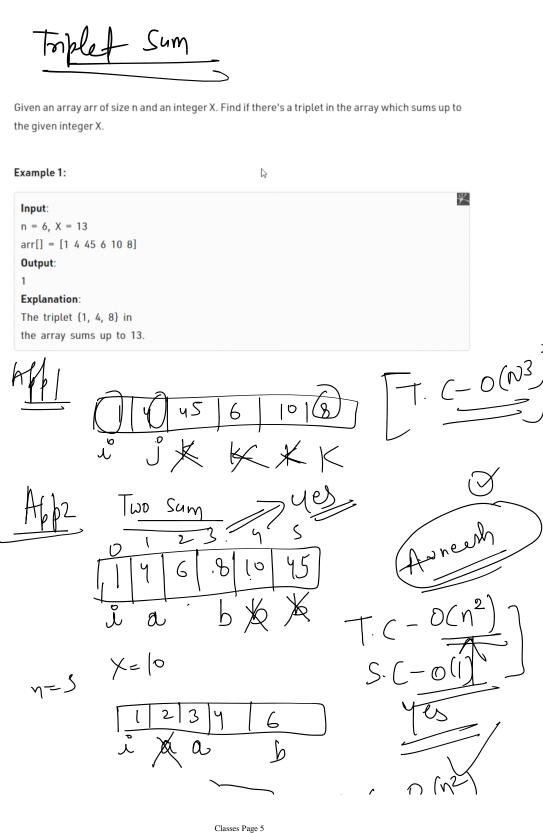
Example 1:

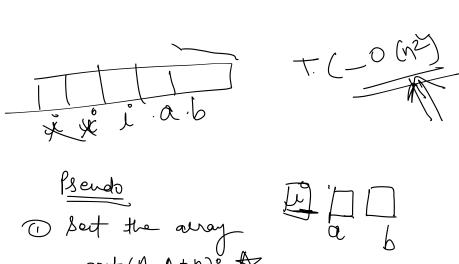
Input:





```
string isSubset(int a1[], int a2[], int n, int m) \{
    unordered_map<int,int> um;
for(int i = 0;i < n;i++){</pre>
         um[a1[i]]++;
     for(int i = 0;i < m;i++){
         if(um.find(a2[ij)!=um.end()){
              um[a2[i]]
              if(um[a2[i]] == 0){
                  um.erase(a2[i]);
         else{
              return "No";
    return "Yes";
}
```



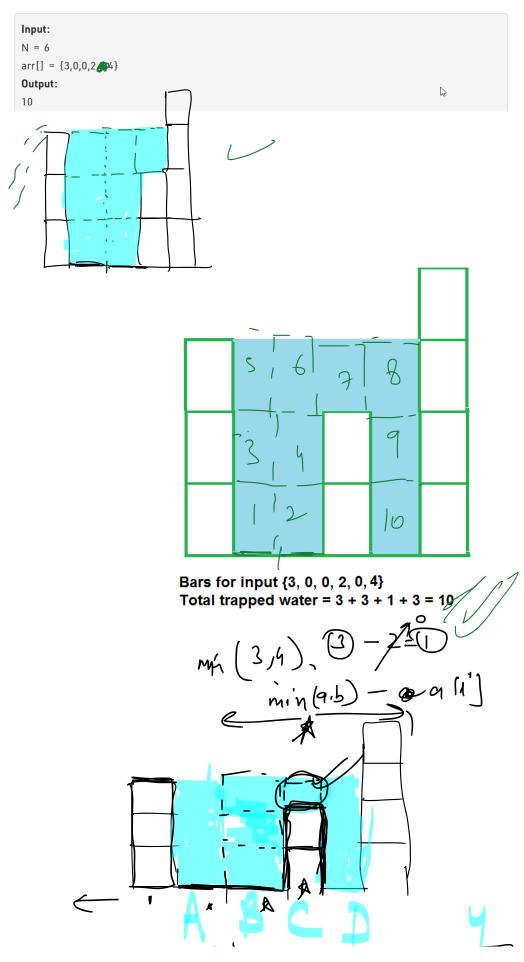


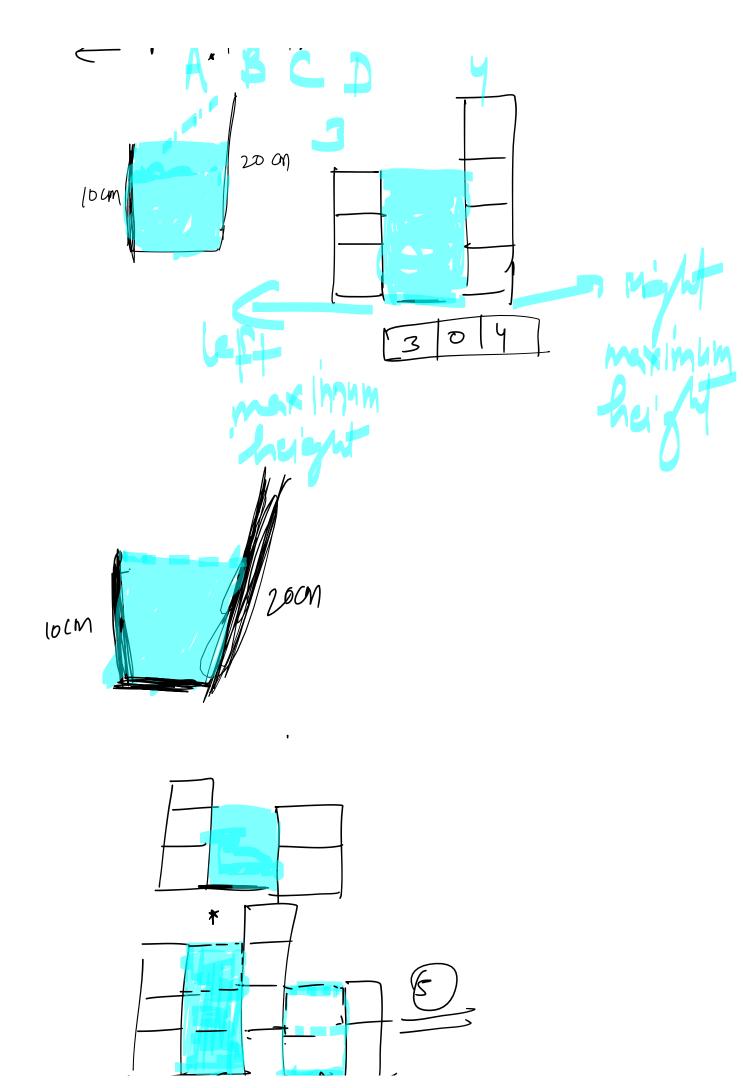
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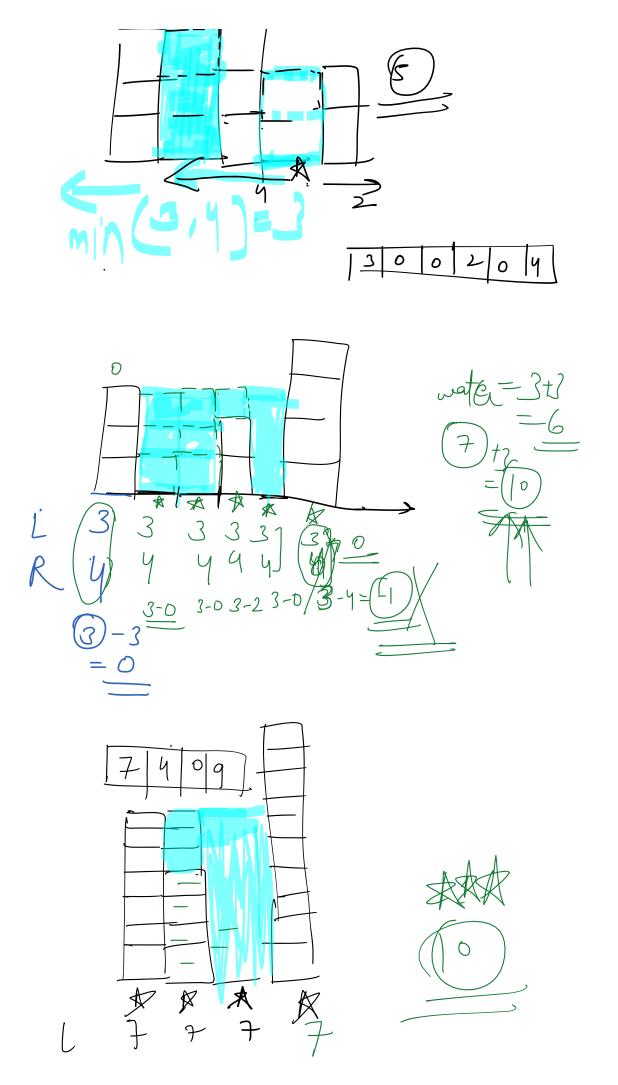
Given an array **arr[]** of **N** non-negative integers representing the height of blocks. If width of each block is 1, compute how much water can be trapped between the blocks during the rainy season.

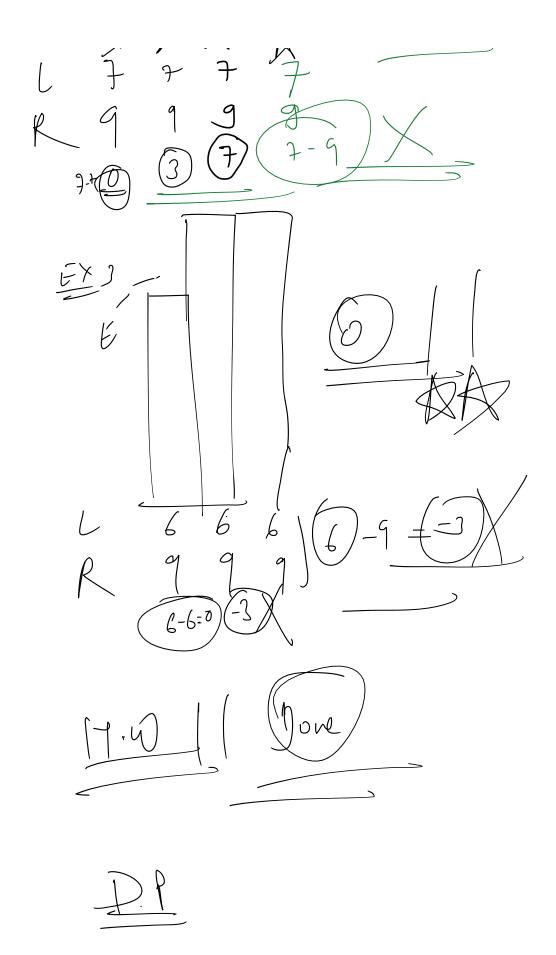
Example 1:





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\ensuremath{/\!/} Function to find the trapped water between the blocks.
  public:
  long long trappingWater(int arr[], int n){
                       - S. C - 6 (N)
    int max_r[n];
    int\ max\_I[n];
    long long ans = 0;
    int \ maxi = arr[0]; \\
    max_I[0] = 0;
    for(int i = 1;i < n;i++){
       if(arr[i] > maxi)\{
         max\_l[i] = arr[i];
         maxi = arr[i];
       else{
         max_l[i] = maxi;
      }
    }
    maxi = arr[n-1];
    max\_r[n-1] = 0;
    for(int i = n-2;i >= 0;i--){
  if(arr[i] > maxi){
         max_r[i] = arr[i];
         maxi = arr[i];
       }else{
         max_r[i] = maxi;
    }
    for(int i = 0; i < n; i++){
      int temp = min(max_r[i],max_l[i]) - arr[i];
ans += temp > 0 ? temp: 0;
    return ans;
};
                  T.(-0(N))
S.(-0(N))
```