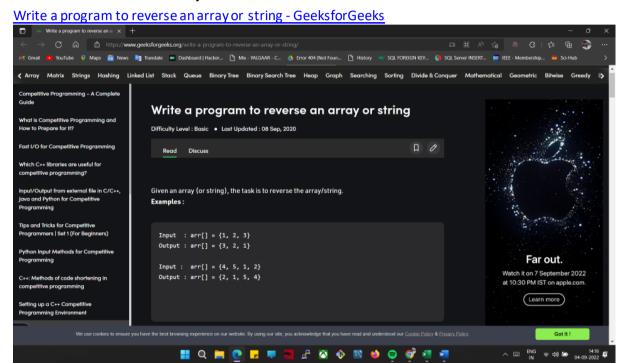
DSA Questions by Love Babbar:-

TOPIC: - ARRAY

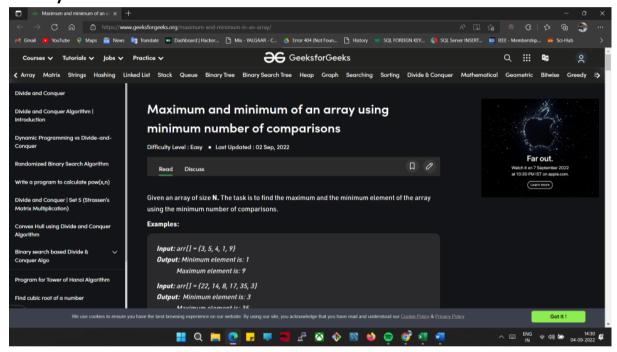
1. Reverse the array

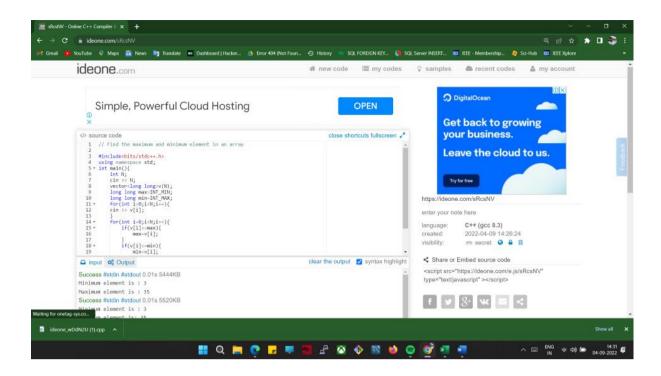


```
Solution :- #include<bits/stdc++.h>
using namespace std;
int main(){
    int N;
    cin >> N;
    vector<long long>v(N);
    for(int i=0;i<N;i++){
        cin >> v[i];
    }
    for(int i=N-1;i>=0;i--){
```

```
cout << v[i] << " ";
}
```

2. Find the maximum and minimum element in an array





Solution :- // Find the maximum and minimum element in an array

```
#include<bits/stdc++.h>
using namespace std;
int main(){
    int N;
    cin >> N;
    vector<long long>v(N);
    long long max=INT_MIN;
    long long min=INT_MAX;
    for(int i=0;i<N;i++){
    cin >> v[i];
    }
    for(int i=0;i<N;i++){</pre>
```

3. Find the "Kth" max and min element of an array

Kth smallest element | Practice | GeeksforGeeks A 6 A G | 6 @ **ƏG** Practice Kth smallest element 🏻 public:
/ arr : given array
// 1 : starting index of the array i.e 0
// r : ending index of the array i.e size-1
// k : find kth smallest element and return using this function
int kthSmallest(int arr[], int l, int r, int k) { This problem is part of GFG SDE Sheet. Click here to view more. Given an array arr[] and an integer K where K is smaller than size of sort(arr,arr+r+1); array, the task is to find the Kth smallest element in the given array. It is 20 21 22 } 23 }; 24 25 • given that all array elements are distinct. Example 1: _ % × Compilation Results Custom Input Problem Solved Successfully ♥ 4,4 156/156

Solution :- class Solution{ public:

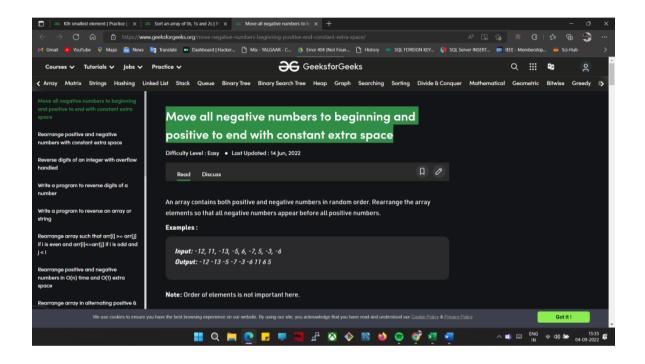
```
// arr : given array
// I : starting index of the array i.e 0
// r : ending index of the array i.e size-1
// k : find kth smallest element and return using
this function
  int kthSmallest(int arr[], int I, int r, int k) {
    sort(arr,arr+r+1);
    return arr[k-1];
}
```

4. Given an array which consists of only 0, 1 and 2. Sort the array without using any sorting algo

Sort an array of Os, 1s and 2s | Practice | GeeksforGeeks **ƏG** Practice Editorial Sort an array of 0s, 1s and 2s 🗆 public: void sort012(int a[], int n) // code here This problem is part of GFG SDE Sheet. Click here to view more. Given an array of size N containing only 0s, 1s, and 2s; sort the array in ascending order Example 1: arr[]= {0 2 1 2 0} Output: 00122 Explanation: Os 1s and 2s are segregated into ascending order. Example 2:

```
Sort an array of 0s, 1s and 2s 🏻
                                                    public:
void sort012(int a[], int n)
      Accuracy: 51.36% Submissions: 100k+
                                                     int c0=0,c1=0,c2=0;
for(int i=0;i<n;i++){
    if(a[i]==0)c0++;
    else if(a[i]==1)c1++;
    else c2++;
  Given an array of size N containing only 0s. 1s. and 2s: sort the array in
  ascending order.
  Example 1:
                                    _ 50 ×
 Compilation Results
  Problem Solved Successfully
                     Total Points Scored:
   35/35
                      2/2
Solution :- {
    public:
    void sort012(int a[], int n)
        int c0=0,c1=0,c2=0;
       for(int i=0;i<n;i++){
            if(a[i]==0)c0++;
            else if(a[i]==1)c1++;
            else c2++;
        int k=0;
       for(int i=0;i<c0;i++)a[k++]=0;
       for(int i=0;i<c1;i++)a[k++]=1;
       for(int i=0;i<c2;i++)a[k++]=2;
```

6. Move all negative numbers to beginning and positive to end with constant extra space



Solution :- //Move all negative numbers to
beginning and positive to end with constant extra
space
#include<bits/stdc++.h>
using namespace std;
int main(){
 int N;
 cin >> N;
 vector<int>v(N);

```
for(int i=0;i<N;i++){
         cin >> v[i];
    }
    vector<int>pos;
    vector<int>neg;
    for(int i=0;i<N;i++){
         if(v[i]<0){
              neg.push_back(v[i]);
         }
         else{
              pos.push_back(v[i]);
         }
    }
    int p=pos.size();
    int n=neg.size();
    vector<int>v3(p+n);
    merge(neg.begin(),neg.end(),pos.begin(),pos.e
nd(),v3.begin());
    for(int i=0;i<p+n;i++){
         cout << v3[i] <<" ";
    }
}
```