



IT SKILLS (Domain Camp) WORKSHEET – 3

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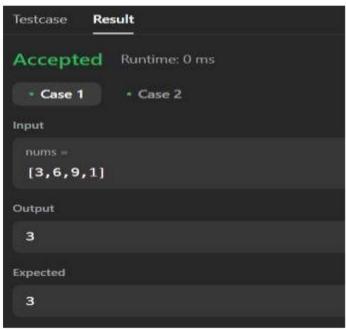
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Que-1: Maximum Gap

```
Code: class
Solution
{public:
    int maximumGap(vector<int>& nums)
        {sort(nums.begin(), nums.end()); int
        ans=0; for(int
        i=0;i<nums.size()1;i++){if(ans<(nu
        ms[i+1]nums[i])){
            ans=nums[i+1]-nums[i];
        }
    } return
    ans;
}
Output:</pre>
```







Que-2: Sort Colors

```
Code: class
Solution {public:
  void sortColors(vector<int>& nums)
     {int start=0; int
    end=nums.size()-1;
    int i=0;
    while(i<=end){</pre>
       if(nums[i]==0){
         int temp=nums[i];
       nums[i]=nums[start];
       nums[start]=temp;
       start++; i++; } else
         if(nums[i]==2){int}
         temp=nums[i];
         nums[i]=nums[end];
         nums[end]=temp;
         end--; }
       else{i++;
```





}; **Output:**











Que-3: Chef and Lockout Draws

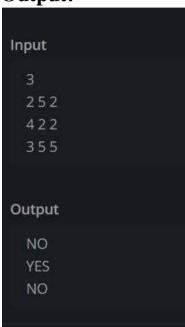
```
Code:
            #include
               using
<iostream>
namespace std;
int main() { int t;
     cin>>t; while(t--
     ){ int a,b,c;
     cin>>a; cin>>b;
     cin>>c; if(a>b
     and a>c){if(a==b
          +c)
          cout<<"YES"<<endl; }</pre>
          else{
             cout << "NO" << endl;
        } else if(b>a
        and
          b>c { if (b==a+c) {
             cout<<"YES"<<endl;
          else{
             cout<<"NO"<<endl;
           }
        else{
          if(c==a+b){
          cout << "YE S" << endl;
          else{
             cout<<"NO"<<endl;
```





}

Output:



Que-4: Turbo Sort

Code:

```
#include <bits/stdc++.h>

using namespace std;

int main() { // your code
    goes here
    int t; cin>>t; vector
    <int> a(t); for(int i = 0;
    i< t; i++){
        cin>>a[i];
    }

    sort(a.begin(),a.end());
    for(int x : a)
    cout<<x<<endl; return
    0;</pre>
```





}

Output:



```
Que-5: Reorder Data in Log Files Code: class Solution {public:
vector<string> reorderLogFiles(vector<string>& logs) { auto it =
stable_partition(logs.begin(), logs.end(), [](const string& str)
{return isalpha(str[str.find(' ') + 1]);
});

sort(logs.begin(), it, [](const string& str1, const string& str2)
        {auto substr1 = string(str1.begin() + str1.find(' '), str1.end());
        auto substr2 = string(str2.begin() + str2.find(' '), str2.end());
        return (substr1 == substr2) ? str1 < str2 : substr1 < substr2;
}); return

logs; }

};</pre>
```





Output:

