WORKSHEET 2

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DOMAIN CAMP: 03-01-2023 to 14-01-2023   **Section/Group:** DWWC-43

Subject Name: IT Skills (DSA)

Question 1. ROLLAR COSTER

```cpp
Language: C++14

1   #include <iostream>
2   using namespace std;
3
4   int main() {
5       int t,x,h;
6       cin>>t;
7       while(t--){
8           cin>>x>>h;
9           if(x>=h){
10              cout<<"yes"<<endl;
11          }else{
12              cout<<"no"<<endl;
13          }
14      }
15      return 0;
16  }
```

SOLUTION:

Status: ✔ Correct Answer		Submission ID: 84844355

Score: 100	Time: 0.01s	Memory: 5.2M

Sub-Task	Task #	Result (time)
1	0	AC (0.003852)
1	1	AC (0.005553)
1	2	AC (0.005694)
1	3	AC (0.005520)
Subtask Score: 100.00%		Result - AC
		Total Score = 100.00%

Question 2. CHEF OF THE YEAR

```
Language: C++14

1   #include <bits/stdc++.h>
2   using namespace std;
3   int main(){
4       int n,m;
5       string a1,a2;
6       cin>>n>>m;
7       map <string,string> in;
8       for(int i=0;i<n;i++){
9           string s;
10          cin>>s;
11          cin>>in[s]; //maps the country wrt the name of the chef
12      }
13      map <string,int> country;
14      map <string,int> chef;
15      for(int i=0;i<m;i++){
16          string ta;
17          cin>>ta;
18          country[in[ta]]++;
19          chef[ta]++;
20      }
21      int score=-2;
22      for(auto x:country){
23          if(x.second>score){
24              a1=x.first;
25              score=x.second;
26          }
27      }
28      score=-2;
29      for(auto x:chef){
30          if(x.second>score){
31              a2=x.first;
32              score=x.second;
33          }
34      }
35      cout << a1 << "\n" << a2 << "\n";
36  }
```

SOLUTION:

Status: ✔ Correct Answer   Submission ID: 84843573

Time: Memory:
0.11s   6.3M

Question 3. DETERMINE THE WEATHER

Language: C++14

```cpp
#include <iostream>
using namespace std;

int main() {
    int T;
    cin>>T;
    while(T--){
        int a,b,x,y;
        cin>>a>>b>>x>>y;
        int c=max(x,y);
        int d=max(a,b);
        if(c==d){
            cout<<"TIE"<<endl;
        }else if(c<d){
            cout<<"Q"<<endl;
        }else{
            cout<<"P"<<endl;
        }


    }
    // your code goes here
    return 0;
}
```

0:0

SOLUTION:

Status: ✔ Correct Answer		Submission ID: 84845208

Score:	Time:	Memory:
100	0.01s	5.3M

Sub-Task	Task #	Result (time)
1	1	AC (0.003817)
1	2	AC (0.005840)
1	3	AC (0.005850)
1	4	AC (0.005848)
Subtask Score: 100.00%		Result - AC
		Total Score = 100.00%

Question 4. DISTINCT PAIRS

```cpp
Language: C++14

1   #include<bits/stdc++.h>
2   using namespace std;
3
4   #define xx first
5   #define yy second
6
7   int main() {
8       int n, m;
9       cin>>n>>m;
10      vector<pair<int,int>> t(n);
11      for(int i=0;i<n;++i) {
12          cin>>t[i].xx;
13          t[i].yy=i;
14      }
15
16      vector<pair<int,int>> k(m);
17      for(int j=0;j<m;++j) {
18          cin>>k[j].xx;
19          k[j].yy=j;
20      }
21      sort(t.begin(), t.end());
22      sort(k.begin(), k.end());
23      for(int j=0;j<m;++j) {
24          cout<<t[0].yy<<" "<<k[j].yy<<"\n";
25      }
26
27      for(int i=1;i<n;++i) {
28          cout<<t[i].yy<<" "<<k[m-1].yy<<"\n";
29      }
30      return 0;
31  }
32
```

0:0

SOLUTION:

Question 5. CHEF AND BRAIN SPEED

Language: C++14

```cpp
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      // your code goes here
6      int x,y;
7      cin>>x>>y;
8      cout<<(x<y?"YES":"NO")<<endl;
9      return 0;
10 }
```

SOLUTION:

Status: ✔ Correct Answer		Submission ID: 84845608

Score: 100	Time: 0.00s	Memory: 5.3M

Sub-Task	Task #	Result (time)
1	1	AC (0.003791)
1	2	AC (0.003572)
1	5	AC (0.003794)
1	6	AC (0.003775)
1	7	AC (0.003817)
1	9	AC (0.003732)
Subtask Score: 100.00%		Result - AC
		Total Score = 100.00%

Question 6. JUMP GAME

✅ **Accepted**

Next question

• 56. Merge Intervals

More challenges

• 45. Jump Game II   • 1306. Jump Game III   • 1871. Jump Game VII

All statuses ∨	All languages ∨

Accepted a few seconds ago	C++	›
Accepted 2 minutes ago	C++	›

Notes

Write your notes here

Related Tags

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```cpp
class Solution {
public:
    bool canJump(vector<int>& nums) {
        int n=nums.size();
        int last=n-1, i;
        for(int i=n-2;i>=0;i--){
            if(i+nums[i]>=last)
                last = i;
        }
        return last<=0;
    }
};
```