

WORKSHEET 2

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DOMAIN CAMP: 16-01-2023 to 28-01-2023

Subject Name: IT Skills (DSA)

UID: 21BCS8129

Section/Group: DWWC-77

Question 1. ROLLAR COSTER

```

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:

Question 3.

Status: ✓ Correct Answer

Submission ID: [84843573](#)

Time:
0.11s

Memory:
6.3M

DETERMINE THE WEATHER

Language: C++14

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int T;
6      cin>>T;
7      while(T--){
8          int a,b,x,y;
9          cin>>a>>b>>x>>y;
10         int c=max(x,y);
11         int d=max(a,b);
12         if(c==d){
13             cout<<"TIE"<<endl;
14         }else if(c<d){
15             cout<<"Q"<<endl;
16         }else{
17             cout<<"P"<<endl;
18         }
19     }
20
21 }
22 // your code goes here
23 return 0;
24 }
```

0:0

SOLUTION:

Question 4.

Status: ✔ Correct Answer

Submission ID: [84845208](#)

Score: 100

Time: 0.01s

Memory: 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%

DISTINCT PAIRS

```

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

```

SOLUTION:

Question 5.

Status: ✓ Correct Answer			Submission ID: 84843957		
Score:	Time:	Memory:			
100	0.20s	6.4M			
Sub-Task			Task #	Result (Time)	
1			0	AC (0.003878)	
1			1	AC (0.003877)	
1			2	AC (0.004677)	
1			3	AC (0.004652)	
1			4	AC (0.004789)	
1			5	AC (0.004982)	
1			6	AC (0.004678)	
1			7	AC (0.004701)	
Subtask Score: 25.00%				Result - AC	
2			8	AC (0.171709)	
2			9	AC (0.172438)	
2			10	AC (0.190188)	
2			11	AC (0.201407)	
2			12	AC (0.199443)	
2			13	AC (0.190967)	
2			14	AC (0.177752)	
Subtask Score: 75.00%				Result - AC	
Total Score = 100.00%					

CHEF AND BRAIN SPEED

```

Language: C++14

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:

Question 6.

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 7.

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

Select tags 0/5

```
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;
    }
};
```