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**UID – 20BCS7422**

**Section – 20DWWC-43 Subject**

**– DSA**

**Domain Winning Camp Worksheet (Practice Questions)**

**Day 2**

**Problem 1: Chef of the year**

**Code:**

```
#include <bits/stdc++.h>
using namespace std;
int main() {
// your code goes here int
n,m;
cin>>n>>m;
map<string,string>m1,m2
; map<string,int>m3,m4;
for(int i=0;i<n;i++){ string
a,b; cin>>a>>b; m1[a]=b;
    // m3[b]++;
}
```



```
for(int i=0;i<m;i++){
    string s;
    cin>>s;
    m3[m1[s]]++;
    m4[s]++;
}
int mx=0; string
s1,s2; for(auto
&i:m4){
if(i.second>mx){
mx=i.second;
    s2=i.first;
} } mx=0;
for(auto &i:m3){
if(i.second>mx){
mx=i.second;
s1=i.first;
} }
cout<<s1<<'\n'<<s2; return
0;
}
```



## OUTPUT:

←
**Chef of the Year**
Scored
← Prev Problem
Next Problem →
🌙

Problem Code: CVOTE
Status: — Unattempted

Submission Ends in:  
368 Days 05 Hrs 25 Min 53 Sec

Statement
Submissions
Comments

### Problem

Chefs from all over the globe gather each year for an international convention. Each chef represents some country. Please, note that more than one chef can represent a country.

Each of them presents their best dish to the audience. The audience then sends emails to a secret and secure mail server, with the subject being the name of the chef whom they wish to elect as the "Chef of the Year".

You will be given the list of the subjects of all the emails. Find the country whose chefs got the most number of votes, and also the chef who got elected as the "Chef of the Year" (the chef who got the most number of votes).

**Note 1**

If several countries got the maximal number of votes, consider the country with the lexicographically smaller name among them to be a winner. Similarly if several chefs got the maximal number of votes, consider the chef with the lexicographically smaller name among them to be a winner.

**Note 2**

The string  $A = a_1a_2...a_n$  is called lexicographically smaller then the string  $B = b_1b_2...b_m$  in the following two cases:

C++17
39 }  
40 }  
39:0

Test against Custom Input

1 3  
Leibniz Germany  
Leibniz  
Leibniz

Status: ✓ Correct Answer
Submission ID: 84236149

Time:  
0.11s

View Remaining Problems
Go to Contest →

Upload code as file
Compile & Run
Submit Code

## Problem 2: How many Unattempt

### Code:

```
#include <iostream>

using namespace
std; int main() { int
x,y;

cin>>x>>y;

cout<<x-y;

return 0;

}
```

## OUTPUT:

← How many unattempted problems Difficulty Rating: 264 Expand

Prev Problem Next Problem

Statement Hints Submissions Solution Ask a Doubt C++17

Test against Custom Input

10 4

Problem Solver Badge 81 / 250  
Solve 169 more problems to get Silver Badge

Next Problem

Status: ✓ Correct Answer Submission ID: 84237461

Time: 0.00s

Sub-Task	Task #	Result (time)
1	1	AC (0.003872)

Output Format

## Problem 3: Total Prize Money

### Code:

```
#include <iostream>
using namespace
std; int main() { int t;
    cin>>t; for (int i = 0; i <
    t; i++){ int x, y;
        cin>>x>>y;
        cout<<10*x + 90*y<<endl;
    }
```

## OUTPUT:

```
return 0;}
```

### Problem

In a coding contest, there are prizes for the top rankers. The prize scheme is as follows:

- Top 10 participants receive rupees  $X$  each.
- Participants with rank 11 to 100 (both inclusive) receive rupees  $Y$  each.

Find the total prize money over all the contestants.

### Input Format

- First line will contain  $T$ , number of test cases. Then the test cases follow.
- Each test case contains of a single line of input, two integers  $X$  and  $Y$  - the prize for top 10 rankers and the prize for ranks 11 to 100 respectively.

### Output Format

For each test case, output the total prize money over all the contestants.

### Constraints

- $1 \leq T \leq 1000$
- $1 \leq Y \leq X \leq 1000$


**Problem Solver Badge** 79 / 250

Solve 171 more problems to get Silver Badge.

**Status:** ✓ Correct Answer Submission ID: 84237173

**Time:** 0.01s

Sub-Task	Task #	Result (time)
1	1	AC (0.004321)
1	2	AC (0.005911)
1	3	AC (0.006020)
Subtask Score: 100.00%		Result - AC
Total Score = 100.00%		

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## Problem 4: Chef and Choclates

### Code:

```
#include <iostream>
using namespace std;
int main() {
    int t,x,y,z,n;
    cin>>t; while(t--
){
    cin>>x>>y>>z;
    n=((5*x+10*y)/z);
```

## OUTPUT:

```
cout<<n<<endl;    }

return 0;}
```

### Problem

Chef has  $X$  5 rupee coins and  $Y$  10 rupee coins. Chef goes to a shop to buy chocolates for Chefina where each chocolate costs  $Z$  rupees. Find the maximum number of chocolates that Chef can buy for Chefina.

### Input Format

- The first line contains a single integer  $T$  — the number of test cases. Then the test cases follow.
- The first and only line of each test case contains three integers  $X$ ,  $Y$  and  $Z$  — the number of 5 rupee coins, the number of 10 rupee coins and the cost of each chocolate.

### Output Format

For each test case, output the maximum number of chocolates that Chef can buy for Chefina.


### Constraints

- $1 \leq T \leq 100$
- $1 \leq X, Y, Z \leq 1000$

Sample 1:

### Test against Custom Input

```
4
10 10 10
3 1 8
8 1 3
```

**Problem Solver Badge** 79 / 250
 
Next Problem

Solve 171 more problems to get Silver Badge

**Status:** ✓ Correct Answer
Submission ID: 84237236

**Time:**  
0.00s

Sub-Task	Task #	Result (time)
1	1	AC (0.003803)

AC

Upload code as file
Compile & Run
Submit Code

## Problem 5: Atm

### Code:

```
#include <bits/stdc++.h> using
namespace std; int main(){
ios_base::sync_with_stdio(false);
cin.tie(0); cout.precision(2); int a;
float b; cin >> a >> b;

if ((a%5==0) && (b-a-0.5>=0)) {
    cout << fixed << b-a-0.5 << endl;
```

```
}  
  
else  
  
{  
  
    cout << fixed << b << endl;  
  
}  
  
return 0;  
}
```

## OUTPUT:

### Problem

Pooja would like to withdraw X \$US from an ATM. The cash machine will only accept the transaction if X is a multiple of 5, and Pooja's account balance has enough cash to perform the withdrawal transaction (including bank charges). For each successful withdrawal the bank charges 0.50 \$US.

Calculate Pooja's account balance after an attempted transaction.

### Input Format

Each input contains 2 integers  $X$  and  $Y$ .

$X$  is the amount of cash which Pooja wishes to withdraw.

$Y$  is Pooja's initial account balance.

### Output Format

Output the account balance after the attempted transaction, given as a number with two digits of precision. If there is not enough money in the account to complete the transaction, output the current bank balance.

### Constraints

1.  $0 < X \leq 2000$  - the amount of cash which Pooja wishes to withdraw.

#### Test against Custom Input

30 120.00

#### Problem Solver Badge

78 / 250

Solve 172 more problems to get Silver Badge

[Next Problem](#)

**Status:** ✓ Correct Answer

Submission ID: [84237401](#)

**Time:**  
0.00s

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