

# Winter Winning Camp Worksheet

## DAY 2

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Subject: IT SKILLS

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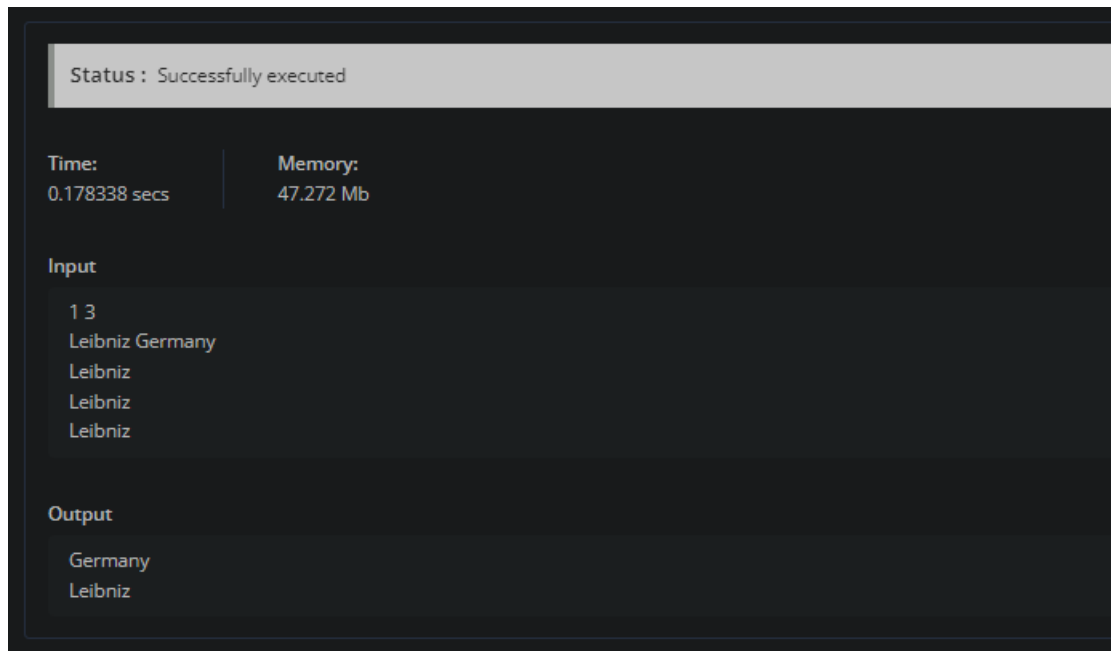
Section/Group: DWWC-43

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### Problem 1: CHEF OF THE YEAR.

Code:

```
3 import java.util.*;
4 import java.lang.*;
5 import java.io.*;
6
7 /* Name of the class has to be "Main" only if the class is public. */
8 class Codechef
9 {
10     public static void main (String[] args) throws java.lang.Exception
11     {
12         // your code goes here
13         Scanner sc = new Scanner(System.in);
14         int n = sc.nextInt();
15         int m = sc.nextInt();
16         Map<String,String> map = new HashMap<>();
17         while(n-->0){
18             String chef = sc.next();
19             String cont = sc.next();
20             map.put(chef,cont);
21         }
22         Map<String,Integer> country = new HashMap<>();
23         Map<String,Integer> chefs = new HashMap<>();
24         int maxCountry = 0;
25         int maxChefs = 0;
26         while(m-->0){
27             String str = sc.next();
28             String get = map.get(str);
29             country.put(get, country.getOrDefault(get, 0) + 1);
30             maxCountry = Math.max(maxCountry, country.get(get));
31             chefs.put(str, chefs.getOrDefault(str, 0) + 1);
32             maxChefs = Math.max(maxChefs, chefs.get(str));
33         }
34         List<String> c = new LinkedList<>();
35         for(String s: country.keySet()){
36             if(country.get(s) == maxCountry){
37                 c.add(s);
38             }
39         }
40         Collections.sort(c);
41         System.out.println(c.get(0));
42         List<String> ch = new LinkedList<>();
43         for(String s: chefs.keySet()){
44             if(chefs.get(s) == maxChefs){
45                 ch.add(s);
46             }
47         }
48         Collections.sort(ch);
49         System.out.println(ch.get(0));
50     }
51 }
52 }
```



## Problem 2: CHEF AND CHOCOLATES

Code:

```
1  /* package codechef; // don't place package name! */
2
3  import java.util.*;
4  import java.lang.*;
5  import java.io.*;
6
7  /* Name of the class has to be "Main" only if the class is public. */
8  class Codechef
9  {
10     public static void main (String[] args) throws java.lang.Exception
11     {
12         // your code goes here
13         Scanner sc = new Scanner (System.in);
14         int t = sc.nextInt();
15         while(t-->0)
16         {
17             int a = sc.nextInt();
18             int b = sc.nextInt();
19             int c = sc.nextInt();
20
21             int totalrupees = ((5*a)+(10*b));
22             if(totalrupees>c)
23             {
24                 System.out.println(totalrupees/c);
25             }
26             else
27             {
28                 System.out.println("0");
29             }
30
31
32         }
33     }
34
35 }
36
37
38
```

Status : Successfully executed

Time:	Memory:
0.127594 secs	51.252 Mb

Input

```
4
10 10 10
3 1 8
8 1 3
4 4 1000
```

Output

```
15
3
16
0
```

### Problem 3: CHEF AND BRAIN SPEED

Code:

```
1  /* package codechef; // don't place package name! */
2
3  import java.util.*;
4  import java.lang.*;
5  import java.io.*;
6
7  /* Name of the class has to be "Main" only if the class is public. */
8  class Codechef
9  {
10     public static void main (String[] args) throws java.lang.Exception
11     {
12         // your code goes here
13         Scanner sc = new Scanner(System.in);
14         int a = sc.nextInt();
15         int b = sc.nextInt();
16         if(a<b){
17             System.out.println("Yes");
18         }
19         else{
20             System.out.println("No");
21         }
22     }
23 }
24 }
25
```

Status : Successfully executed

Time:	Memory:
0.157367 secs	39.144 Mb

Input

7 9

Output

Yes

## Problem 4: ATM

Code:

```
3
4 import java.util.*;
5 import java.io.*;
6
7 class Solution{
8     public static void main(String[] args) throws Exception{
9         InputStreamReader i = new InputStreamReader(System.in);
10        BufferedReader bf = new BufferedReader(i);
11        String[] in = bf.readLine().split(" ");
12        float n = Float.parseFloat(in[0]);
13        float f = Float.parseFloat(in[1]);
14
15        if(n%5==0 && f>=n+0.5f)
16            System.out.println(f-n-0.5f);
17
18        else{
19            System.out.println(f);
20        }
21    }
22 }
23 }
24
25
```

Status : Successfully executed

Time:  
0.1179 secs

Memory:  
53.832 Mb

Input  
30 120.00

Output  
89.5

### Problem 5: EQUAL INTEGERS

Code:

```

1  /* package codechef; // don't place package name! */
2
3  import java.util.*;
4  import java.lang.*;
5  import java.io.*;
6
7  /* Name of the class has to be "Main" only if the class is public. */
8  class Codechef
9  {
10     public static void main (String[] args) throws java.lang.Exception
11     {
12         Scanner sc=new Scanner(System.in);
13         int t=sc.nextInt();
14         while(t-->0){
15             int x=sc.nextInt();
16             int y=sc.nextInt();
17             if(x==y) System.out.println(0);
18             else if(x<y) System.out.println(y-x);
19             else if(x%2==0 && y%2==0 || x%2!=0 && y%2!=0) System.out.println((int)Math.abs(x-y)/2);
20             else System.out.println(((int)Math.abs(x+1-y)/2)+1);
21         }
22         sc.close();
23     }
24 }
25

```

Status : Successfully executed

Time:

0.154656 secs

Memory:

50.84 Mb

Input

```

5
3 4
5 5
7 3
5 2
7 12

```

Output

```

1
0
2
3
5

```

