
 Marwadi University	Marwadi University Faculty of Technology Department of Information and Communication Technology	
Sem : 4	Name : VEDANT BHARAD	
Day : 80	Date : 5/1/2023	Enrollment No: 92100133023

CP Club 365 Days Challenge

Programming language – C++

Problem Statement


https://www.codechef.com/DSAPREP_01/problems/EMPR

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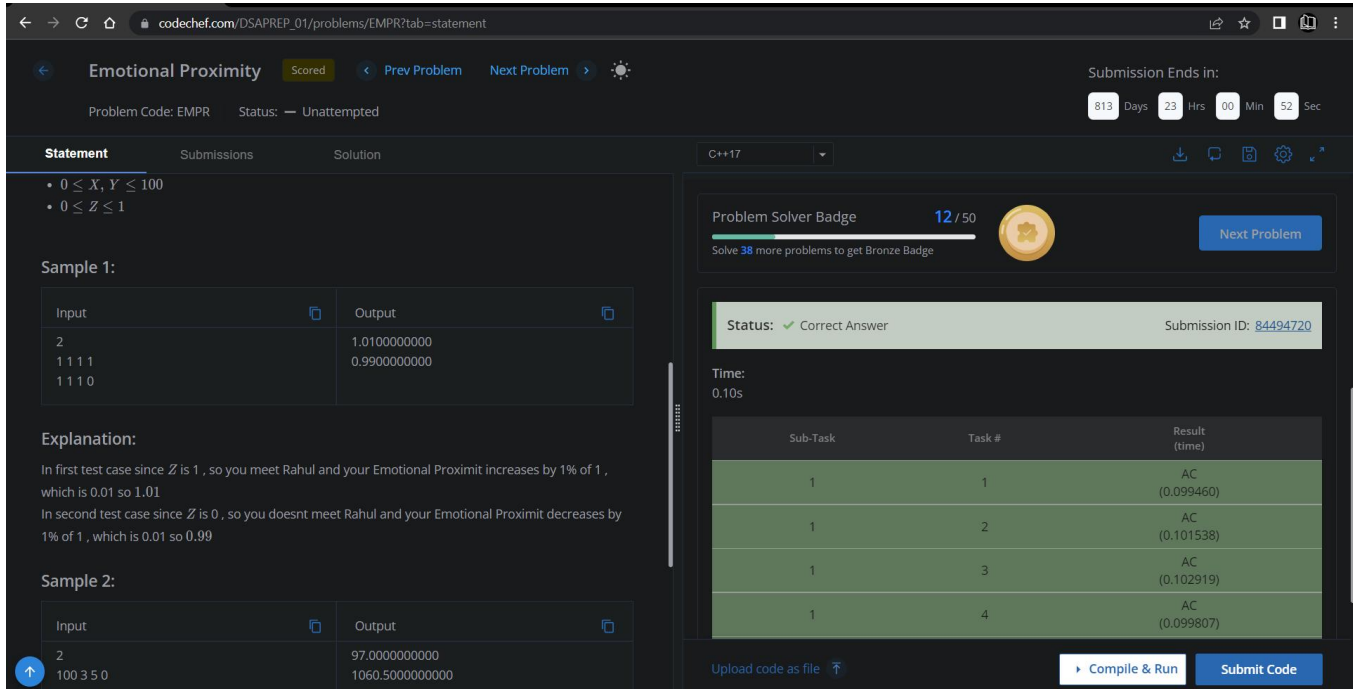
Your Code:

```
// 0x80Day of 0x365Days challenge
// VEDANT BHARAD
// 5-1-2023
#include <bits/stdc++.h>
using namespace std;

int main() {
    // your code goes here
    int t;
    cin >> t;
    while(t--)
    {
        int x,y,z;
        long double p,ans;
        cin >> p >> x >> y >> z;
        if(z == 1)
        {
            ans = p + (p*y)/100;
        }
        else
        {
            ans = p - (p*x)/100;
        }
        cout << fixed << setprecision(5) << ans << endl;
    }
    return 0;
}
```

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Output (Screen Shot):



The screenshot shows the CodeChef interface for the problem "Emotional Proximity". The problem is scored and has a submission limit of 813 days, 23 hours, 00 minutes, and 52 seconds. The problem code is EMPR and the status is Unattempted. The problem statement includes constraints $0 \leq X, Y \leq 100$ and $0 \leq Z \leq 1$. Sample 1 shows input 2 and 1 1 1 1, resulting in output 1.0100000000 and 0.9900000000. Sample 2 shows input 2 and 100 3 5 0, resulting in output 97.0000000000 and 1060.5000000000. The explanation states that if Z is 1, the emotional proximity increases by 1% of 1, and if Z is 0, it decreases by 1% of 1. The problem solver badge shows 12/50 solved problems. The submission status is "Correct Answer" with submission ID 84494720. The time taken is 0.10s. The sub-tasks table shows 4 tasks, all completed with AC (Accepted) results.

Sub-Task	Task #	Result (time)
1	1	AC (0.099460)
1	2	AC (0.101538)
1	3	AC (0.102919)
1	4	AC (0.099807)

Understanding about problem:

- In this task there is P,X,Y,Z as a input.
- I need to return $(p + (p*y)/100)$ if Z is 1 else $(p - (p*y)/100)$.

Note: If you can't understand the problem, feel free to contact us and we'll help you. Please don't copy and paste from anywhere.

ALL THE BEST

Team CP Club