69:18:28 Finish test

Learn how your code will be evaluated (https://helpcenter.mymapit.in/?ht_kb=things-to-know-before-attempting-the-test) Utility codes for

Utility codes for quick start (https://helpcenter.mymapit.in/?page_id=871)

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Section - 1

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Sum of series

Anil is wondering if he can find out the sum of series using loops in C. Help him write a C program to get the following sum of series up to 4 decimal places if 'N' is being provided.

$$1 - \frac{1}{2} + \frac{1}{3} - \frac{1}{4} + \dots 1/N$$

Sample Input 1

2

Sample Output 1

0.5000

Sample Input 2:

4

Sample Output 2

0.5833

Input Explanation:

The first line contains the positive integer 'N', where N is the number of terms in the given series

```
C (gcc 4.8.3) 🗸
                                                                   Compile & Run
    #include<stdio.h>
    int main(){
         // input
         int n;
         scanf("%d",&n);
9
         // algo
10
         float sum = 0;
11
         int denominator = 1;
12
         int sign = 1; // +1 means positive -1 means -ve
13
14
         while(n != 0){
15
16
             sum += (sign)*((float)1/(float)denominator); // formula
17
18
             // updation
19
             denominator++; // increment deno
20
             sign *= -1; // reverse sign
21
             n--;
22
23
24
25
         printf("%0.4f",sum); // to set decimal limit to 4
26
27
    }
```

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3/25/23, 2:42 PM Myanatomy MAPIT

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