Code, Compile & Run

Ide

Contest Code/Name (e.g. JULY15/PRACTICE) | Problem Code/Name (e.g. TEST) | Select

C (gcc 6.3) | Code gets autosaved every second

```
#include <stdio.h>
int main () {
    int x1, y1, x2, y2, x3, y3, div, i;

    /* get the inputs for first fraction from user */
    printf("Enter the value for x1 and y1(x1/y1):");
    scanf("%d%d", &x1, &y1);

    /* get the inputs for second fraction from user */
    printf("Enter the value for x2 and y2(x2/y2):");
    scanf("%d%d", &x2, &y2);

    /* calculating the numerator */
    x3 = (x1 * y2) + (x2 * y1);

    /* calculating the numerator */
    y3 = (y1 * y2);

    /* simplifying the fraction */
    if (x3 > y3) {
        div = y3;
    } else {
        div = x3;
    }

    for (i = div; i > 0; i--) {
        if (x3 % i == 0 && y3 % i == 0) {
            x3 = x3 / i;
```

0:0

Open File | ✓Custom Input | Run

Custom Input

```
1 2 3 4
```

Status Successfully executed **Date** 2020-06-02 14:20:08 **Time** 0 sec **Mem** 9.424 kB

Input

```
1 2 3 4
```

Output

```
Enter the value for x1 and y1(x1/y1):Enter the value for x2 and y2(x2/y2):Sum of given two fra
```


CodeChef - A Platform for Aspiring Programmers

CodeChef was created as a platform to help programmers

fraction.c

Name:- Shreyas Naidu

Algorithm

Step 1: Start

Step 2: Read value for x1, y1, x2, y2

Step 3: x3 = (x1 * x2) + (x2 + y1)

Step 4: y3 = (y1 + y2)

Step 5: if (x3 > y3) // If (x3 > y3) becomes false goto step 5.1
div = y3

5.1 else div = x3

Step 6: for (i = div; i > 0; i--) // If the condition becomes goto step 7
{
6.1 if (x3 % i == 0 && y3 % i == 0)
{
x3 = x3 / i ;
y3 = y3 / i ;
}
}

Step 7: print "sum of given 2 fraction is"

Step 8: stop.

Flowchart