

Home » IDE

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

```

1 #include <stdio.h>
2 int main () {
3     int x1, y1, x2, y2, x3, y3, div, i;
4
5     /* get the inputs for first fraction from user */
6     printf("Enter the value for x1 and y1(x1/y1):");
7     scanf("%d%d", &x1, &y1);
8
9     /* get the inputs for second fraction from user */
10    printf("Enter the value for x2 and y2(x2/y2):");
11    scanf("%d%d", &x2, &y2);
12
13    /* calculating the numerator */
14    x3 = (x1 * y2) + (x2 * y1);
15
16    /* calculating the denominator */
17    y3 = (y1 * y2);
18
19    /* simplifying the fraction */
20    if (x3 > y3) {
21        div = y3;
22    } else {
23        div = x3;
24    }
25
26    for (i = div; i > 0; i--) {
27        if (x3 % i == 0 && y3 % i == 0) {
28            x3 = x3 / i;
29            y3 = y3 / i;
30        }
31    }
32
33    printf("Simplified fraction is: %d/%d", x3, y3);
34    return 0;
35 }
```

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

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Algorithm

Step 1: Start

Step 2: Read values for x_1, y_1, x_2, y_2

Step 3: $x_3 = (x_1 \times x_2) + (x_2 \times y_1)$

Step 4: $y_3 = (y_1 \times y_2)$

Step 5: if $(x_3 > y_3)$ // If $(x_3 > y_3)$ becomes false goto step 5.1
div = y_3

5.1 else div = x_3

Step 6: for $(i = \text{div}; i > 0; i--)$ // If the condition becomes false goto step 7

6.1 if $(x_3 \% i == 0 \ \&\& \ y_3 \% i == 0)$

& $x_3 = x_3 / i;$

$y_3 = y_3 / i;$

3

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

Step 8: stop.

Flowchart

