



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     }
```

8:7



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```
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 /* print the output */
34 printf("Sum of given two fraction is %d/%d\n", x3, y3);
35 return 0;
36 }
37
```

8:7

Open File

Custom Input

Run

Custom Input

1 2 3 2

Status Successfully executed

Date 2020-06-02 14:04:04

Time 0 sec

Mem 9.424 kB

Input

1 2 3 2

Output

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

Program to add 2 fractions

Algorithm

Step 1: Start

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

Step 3: $x_3 = (x_1 * y_2) + (x_2 * y_1)$

Step 4: $y_3 = (y_1 * y_2)$

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

Step 5.1: else

div = x_3

Step 6: for $[i = \text{div}; i > 0; i--]$ // if false goto to step 7

{ if $(x_3 \% i == 0 \text{ \& \& } y_3 \% i == 0)$

Step 6.1

{ $x_3 = x_3 / i$

$y_3 = y_3 / i$

}

}

Step 7: Print "Sum of given 2 fractions is"

Step 8: Stop

flow chart

