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  {
4  int a,b,c,d,x,y,i,gcd;
5  printf("\nEnter the numerator for 1st number:");
6  scanf("%d",&a);
7  printf("\nEnter the denominator for 1st number:");
8  scanf("%d",&b);
9  printf("\nEnter the numerator for 2nd number:");
10 scanf("%d",&c);
11 printf("\nEnter the denominator for 2nd number:");
12 scanf("%d",&d);
13 x=(a*d)+(b*c);
14 y=b*d;
15 for(i=1;i<=x && i<=y;++i)
16 {
17 if(x%i==0 && y%i==0)
18  gcd=i;
19 }
20 printf("\nThe added fraction is %d/%d",x/gcd,y/gcd);
21 printf("\n");
22 return 0;
23 }
```

0:0

Open File ✓Custom Input Run

Custom Input

```
1
2
3
2
```

Status Successfully executed **Date** 2020-06-02 12:47:01 **Time** 0 sec **Mem** 9.424 kB ×

Input

```
1
2
3
2
```

Output

```
Enter the numerator for 1st number:
Enter the denominator for 1st number:
Enter the numerator for 2nd number:
Enter the denominator for 2nd number:
The added fraction is 2/1
```

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i) Algorithm (to add two fractions)

1) Start
2) Read the value of numerator1, denominator1, numerator 2, denominator 2
3) x = (numerator1 * denominator2) + (denominator1 * numerator 2)
4) y = (denominator1 * denominator 2)
5) for (i=1 ; i<= x && i<= y ; i++), if this condition becomes false goto step 7
5.1) if (x % i == 0 && y % i == 0), if this condition becomes false goto step 5
5.1.1) gcd = i
6) Repeat step 5 until the condition becomes false
7) Print " The added fraction' and display the two values of the condition x/ gcd, y/gcd
8) stop.

(ii) Flowchart