

## Code, Compile & Run



Ide
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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,hcf, lcm,rem,num,deno;
5     printf("Enter two numbers\n");
6     scanf("%d\n%d",&a,&b);
7     printf("%d\n%d\n",a,b);
8     if(a>b)
9     {
10        num=a;
11        deno=b;
12    }
13    else
14    {
15        num=b;
16        deno=a;
17    }
18    rem=num%deno;
19    while(rem!=0)
20    {
21        num=deno;
22        deno=rem;
23        rem=num%deno;
24    }
25    hcf=deno;
26    lcm=(a*b)/hcf;
27    printf("hcf of %d and %d=%d\n",a,b,hcf);
28    printf("lcm of %d and %d=%d\n",a,b,lcm);
29 }
  
```

0:0 

Open File

✓ Custom Input

Run

Custom Input

8  
 20

Status Successfully executed

Date 2020-06-03 09:48:18

Time 0 sec

Mem 9.424 kB

×

Input

8  
 20

Output

Enter two numbers  
 8  
 20  
 hcf of 8 and 20=4  
 lcm of 8 and 20=40

(i) Algorithm (to find HCF & LCM of two no.)

step 1: start

step 2: Display Enter the two numbers  
Input  $a, b$

step 3: if  $(a > b)$

num =  $a$

deno =  $b$

else

num =  $b$

deno =  $a$

step 4:  $rem = num \% deno$

step 5: while  $(rem \neq 0)$

num = deno

deno = rem

rem = num  $\%$  deno

step 6:  $hcf = deno$

step 7:  $lcm = (a * b) / hcf$

step 8: Display hcf of  $\%d$  &  $\%d = \%d$

output  $a, b, hcf$

step 9: Display lcm of  $\%d$  &  $\%d = \%d$

output  $a, b, lcm$

step 10: stop.

(ii) Flowchart

