

Google Meet x Online C Compiler - online editor x +

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Run Debug Stop Share Save Beautify

Language C

main.c

```
9 #include <stdio.h>
10
11 void towers(int, char, char, char);
12 int gcd(int a,int b);
13 int main()
14 {
15     int num;
16
17     printf("Enter the number of disks : ");
18     scanf("%d", &num);
19     printf("The sequence of moves involved in the Tower of Hanoi are :\n");
20     towers(num, 'A', 'C', 'B');
21
22     int a , b;
23     printf("\nEnter two numbers:\n");
24     scanf("%d%d",&a,&b);
25     printf("GCD of %d and %d is %d ", a, b, gcd(a, b));
26     return 0;
27 }
28
29
30 void towers(int num, char from, char to, char aux)
31 {
32     if (num == 1)
33     {
34         printf("\n Move disk 1 from peg %c to peg %c", from, to);
35         return;
36     }
37     towers(num - 1, from, aux, to);
```

The screenshot shows a web browser window with two tabs: "Google Meet" and "Online C Compiler - online editor". The active tab is the online editor, which has a URL bar showing "Not secure | onlinegdb.com/online_c_compiler". The editor interface includes a toolbar with buttons for "Run", "Debug", "Stop", "Share", "Save", "Beautify", and a download icon. A "Language" dropdown menu is set to "C". The code editor displays a file named "main.c" with the following C code:

```
27 }
28
29
30 void towers(int num, char from, char to, char aux)
31 {
32     if (num == 1)
33     {
34         printf("\n Move disk 1 from peg %c to peg %c", from, to);
35         return;
36     }
37     towers(num - 1, from, aux, to);
38     printf("\n Move disk %d from peg %c to peg %c", num, from, to);
39     towers(num - 1, aux, to, from);
40 }
41
42
43 int gcd(int a, int b)
44 {
45     if (a == 0)
46         return b;
47     else if (b == 0)
48         return a;
49     else if (a == b)
50         return a;
51     else if (a > b)
52         return gcd(a-b, b);
53     else
54         return gcd(a, b-a);
55 }
56
```

The Windows taskbar is visible at the bottom, showing the search bar and several application icons. The system clock in the bottom right corner indicates the time is 10:38 on 15-04-2021.

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input

```
Enter the number of disks : 4
The sequence of moves involved in the Tower of Hanoi are :

Move disk 1 from peg A to peg B
Move disk 2 from peg A to peg C
Move disk 1 from peg B to peg C
Move disk 3 from peg A to peg B
Move disk 1 from peg C to peg A
Move disk 2 from peg C to peg B
Move disk 1 from peg A to peg B
Move disk 4 from peg A to peg C
Move disk 1 from peg B to peg C
Move disk 2 from peg B to peg A
Move disk 1 from peg C to peg A
Move disk 3 from peg B to peg C
Move disk 1 from peg A to peg B
Move disk 2 from peg A to peg C
Move disk 1 from peg B to peg C

Enter two numbers:
20 50
GCD of 20 and 50 is 10

...Program finished with exit code 0
Press ENTER to exit console.
```

Search the web and Windows

Sch... e ... va ...

YouTube Add shortcut

10:39 15-04-2021