


## Code, Compile & Run

 ide  

Contest Code/Name (e.g. JULY15/PRACTICE)

Problem Code/Name (e.g. TEST)

Select

C (gcc 6.3)



Code gets auto saved every second



```

1 #include<stdio.h>
2 long int multiplyNumbers(int n);
3 int main() {
4     int n;
5     printf("Enter a positive integer: ");
6     scanf("%d",&n);
7     printf("Factorial of %d = %ld", n, multiplyNumbers(n));
8     return 0;
9 }
10
11 long int multiplyNumbers(int n) {
12     if (n==1)
13         return n*multiplyNumbers(n-1);
14     else
15         return 1;
16 }
  
```

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Open File

☒ Custom Input

Run

Custom Input

6

**Status** Successfully executed **Date** 2020-07-02 05:28:04 **Time** 0 sec **Mem** 9.424 kB


Input

6

Output

Enter a positive integer: Factorial of 6 = 720

Algorithm:

4AL19CS070

step 1 : start

Step 2 : Read number  $n$

Step 3 : call factorial ( $n$ )

step 4 : print factorial  $f$

step 5 : stop

factorial ( $n$ )

step 1 : If  $n == 1$  then return 1

step 2 : Else

$$f = n * \text{factorial}(n-1)$$

step 3 : Return  $f$

Flowchart :

