

## Algorithm

1. `int factorial(int n);`

`int main ()`

1. Start

2. Read  $n$

3. `fact = factorial(n)`

4. Print `fact`.

5. Stop

`int factorial(int n)`

1. Start

2. `if (n == 0)`

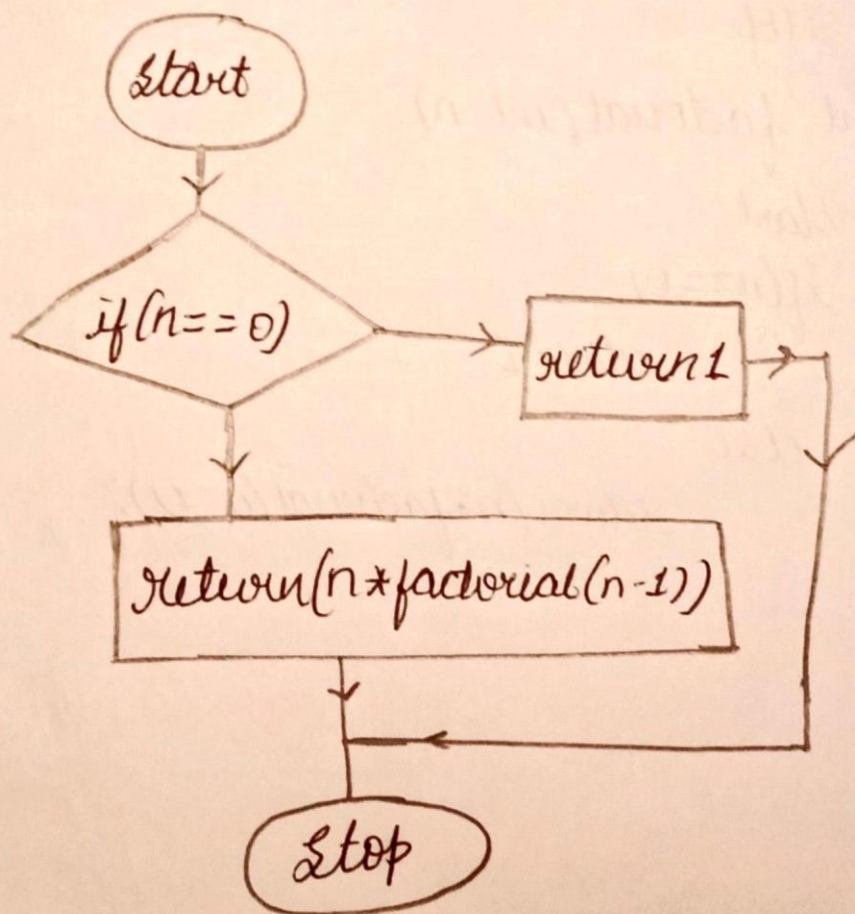
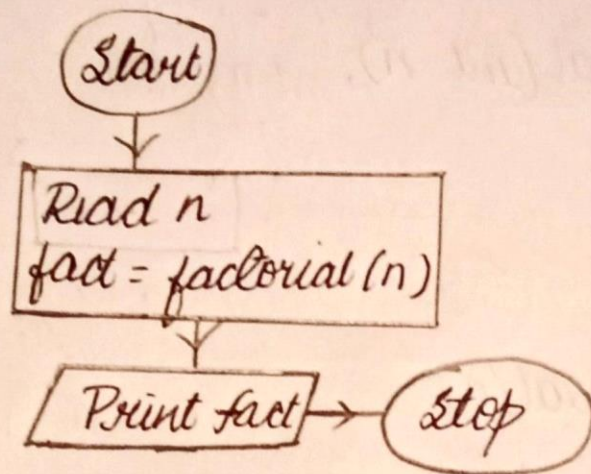
3. `return 1`

`else`

`return (n * factorial(n - 1));`



## Flowchart



C (gcc 6.3)



Code gets autosaved every second

```
1 #include<stdio.h>
2 int factorial(int n);
3 int main()
4 {
5     int n,fact;
6     printf("Enter a number\n");
7     scanf("%d", &n);
8     fact=factorial(n);
9     printf("fact is %d\n",fact);
10 }
11 int factorial(int n)
12 {
13     if(n==0)
14     {
15         return 1;
16     }
17     else
18     {
19         return(n*factorial(n-1));
20     }
21 }
```

0:0

Open File

Custom Input

8

Status Successfully executed Date 2020-07-02 11:06:50 Time 0 sec

Input

8

Output

Enter a number  
fact is 40320