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Chapter 6

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Factorial

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Please use this option only if you find any issues or mistakes in the content. If you have any queries or questions regarding the subject matter, then please use [Ask a tutor](#).

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- (1) For statement done
- (2) Factorial done
- (3) Calculating an average, loop structure done



Write a program that prompts the user for an integer n (n>0) and prints the factorial of the number on the screen. For example, the factorial of n is designated n!, which means the number calculated as follows: 1*2*3...*n

Example output:

Enter an integer: 3
The factorial of 3 is 6

The verification of program output does not account for whitespace characters like "n", "t" and " "

Hide

• [program.c](#)

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int first;
6     int i;
7     int factorial;
8     factorial = 1;
9
10    printf("Enter an integer: ");
11    scanf("%d", &first);
12
13    for(i = 1; i <= first; ++i)
14        { factorial *= i; }
15
16
17    { printf("The factorial of %d is %d\n", first, factorial); }
18
19    return 0;
20 }
21 }
```

Position: Ln 1 Ch 1

Full screen (Esc to exit)

Reset

Save

Run