#include <stdio.h>

// Recursive function to calculate factorial of a number

unsigned long factorial(int n)

{

    // base case: if `n` is 0 or 1

    if (n < 1) {

        return 1;

    }

    // use the recurrence relation

    return n \* factorial(n - 1);

}

int main()

{

    int n = 5;

    printf("The Factorial of %d is %lu", n, factorial(n));

    return 0;

}