#include <stdio.h>

long long int factorial(int n) {

if (n == 0 || n == 1) {

return 1;

} else {

return n \* factorial(n - 1);

}

}

int main() {

int n;

long long int result;

printf("Enter a non-negative integer: ");

scanf("%d", &n);

if (n < 0) {

printf("Please enter a non-negative integer.\n");

return 1;

}

result = factorial(n);

printf("The factorial of %d is: %lld\n", n, result);

return 0;

}