1. Write a C++ program to get the summation of **AMCAT pattern** until the user given input by using recursion.

Ex: Input: 4

Output: 5167

Series: (1) + (2\*3) + (4\*5\*6) + (7\*8\*9\*10)

Enter the number of occurrence: 5

Sum of the AMCAT series: 365527