

Problem #1**(10 marks)****Series Sum**

Write a program that takes a non-negative integer and computes the sum of the following series up to n terms. **You cannot use nested loops for this problem.**

$$\frac{1}{1!} - \frac{1*(1+3)}{2!} + \frac{1*(1+3)*(1+3+5)}{3!} - \frac{1*(1+3)*(1+3+5)*(1+3+5+7)}{4!} + \dots$$

Sample Input(s)	Corresponding Output(s)
1	1
2	-1
4	-19

Problem #2**(10 marks)****Number Triangle**

Write a program that takes two integers x and n and prints the left aligned triangle according to the pattern shown in sample input output.

Sample Input(s)	Corresponding Output(s)
2 3	1 1 4 1 4 9
3 5	1 1 8 1 8 27 1 8 27 64 1 8 27 64 125