1. Given **n** print the sum of following series up to n'th term.

   1/1! - 1*(1+2) / 2! + 1*(1+2)*(1+2+3) / 3! - …. 1*(1+2)*(1+2+3) * … *(1+2+3+..+n) / n!

   -For full marks use only one for loop, else you will get 50%.

Input	Output
2	-0.5
3	2.5
4	-5.0

2. **Bonus:** Continually take input unless a -ve number is given. Input will be only 0/1. That is actually binary representation of a number. You have to determine the decimal representation and total number of digits in decimal representation of that number. Input order MSB to LSB.

   Sample:

Input	Output
1 0 0 1 0 **-1**	18 2

3. Given n print the following shape,

Input	Output

4	*******
	 * *
	  * *
	  *