1. http://bit.ly/1S1esp9
2.

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

   -1 + 2 - 1.(1+3) + 2.(2+4) - 1.(1+3).(1+3+5) + 2.(2+4).(2+4+6) - 1.(1+3).(1+3+5).(1+3+5+7) + …..

   For full marks use only one for loop, else you will get 60%

Input	Output
1 2 3 4 5 6 7 8 9 10	-1 1 -3 9 -27 117 -459 2421 -11979 74421

3. You are given two numbers **x** & **y**. **y** is **b** base representation of **x**. Value of b is not given. Determine the possible values of **b** such that 2<=b<=10. x is given in base 10 format.

   Hints: You need nested loop here.

Input	Output
4 4 10 1010 10 22 12345 17836	5 6 7 8 9 10 2 4 9

4. **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