O. Sum Kind of Problem

Time Limit: 2 seconds

Problem description

For this problem you will compute various running sums of values for positive integers.

Input:

The first line of input contains a single integer **P**, (1 <= P <= 10000), which is the number of data sets that follow. Each data set should be processed identically and independently.

Each data set consists of a single line of input. It contains the data set number, **K**, followed by an integer **N**, (1 <= N <= 10000).

Output:

For each data set there is one line of output. The single output line consists of the data set number, ***K***, followed by a single space followed by three space separated integers ***S1***, ***S2*** and ***S3*** such that:

S1 = The sum of the first ***N*** positive integers.
S2 = The sum of the first ***N*** odd integers.
S3 = The sum of the first ***N*** even integers

Example 1:

Input	Output
3 1 1 2 10 3 1001	1 1 1 2 2 55 100 110 3 501501 1002001 1003002