שif

Greater New York Region 2015 2CN International Collegiate

## A•Sum Kind of Problem

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

## Input

The first line of input contains a single integer $P,(1 \leq P \leq 10000)$, 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, $\boldsymbol{K}$, followed by an integer $\boldsymbol{N}$, ( $1<=\mathbf{N}<=10000$ ).

## Output

For each data set there is one line of output. The single output line consists of the data set number, $\boldsymbol{K}$, followed by a single space followed by three space separated integers S1, S2 and S3 such that:
$\mathbf{S 1}=$ The sum of the first $\boldsymbol{N}$ positive integers.
S2 = The sum of the first $\boldsymbol{N}$ odd integers.
$\mathbf{S 3}=$ The sum of the first $\boldsymbol{N}$ even integers.

| Sample Input | Sample Output |
| :--- | :--- |
| 3 | 11112 |
| 1 | 1 |
| 2 | 10 |
| 3 | 1001 |$|$| 2 | 55 | 100 |
| :--- | :--- | :--- |
| 3 | 501501 | 10020011003002 |

