## Playing with GCD

Tanmoy recently learn about euclid gcd algorithm.
This algorithm looks like:
$\operatorname{gcd}(a, b):$
if(b==0):return a
return $\operatorname{gcd}(b, a \% b)$
Now he want to find out how many pair ( $x, y$ ) can be possible in range $N$, which gcd is greater than 1. Here pair ( $x, y$ ) and ( $y, x$ ) consider as same pair. $1<=x, y<=N$.

He can find out it small number easily but for a large number its realy hard to find out. Now he needs your help. Write a programme that find out number of such pair.

## Input:

Input start with an integer number $\mathrm{T}\left(\leq 10^{\wedge} 5\right)$, which is number of test cases.
Each test case contain a integer $\mathrm{N}\left(1 \leq \mathrm{N} \leq 10^{\wedge} 5\right)$.

## Output:

For each case, Print case Number and Desired answer

## Sample:

| Input | Output |
| :--- | :--- |
| 2 |  |
| 3 | Case 1:2 |
| 4 | Case 2:4 |

