## **Wow Square**

"Wow Square" This problem is about the perfect square number, given a positive integer  $\mathbf{n}$  your task is to find two integers  $\mathbf{x}$  and  $\mathbf{y}$  that satisfy:

1)  $x < y \le n$ . Remember that x is always less than y.

2)  $\mathbf{x}^* \mathbf{y}$  is a perfect square. This means that there's a positive integer  $\mathbf{z}$  such that  $\mathbf{z}^* \mathbf{z} = \mathbf{a}^* \mathbf{b}$ .

3) **x**\***y** is maximum. Find **x**\***y** as large as possible without violating previous rules.

4\*)  $\mathbf{y}$ - $\mathbf{x}$  is maximum. If there still multiple solution  $\mathbf{x}$ ,  $\mathbf{y}$  that satisfy all previous rules, choose  $\mathbf{x}$ ,  $\mathbf{y}$  with largest  $\mathbf{y}$ - $\mathbf{x}$ .

## Input

First line, there's an integer  $T(1 \le T \le 10,000)$  then T cases follow.

Each test case there's an integer  $\mathbf{n}(4 \le \mathbf{n} \le 10,000,000)$ .

## Output

For each test case, output  $\mathbf{x}$  and  $\mathbf{y}$  with this fotmat:  $\mathbf{x}^*\mathbf{y}$ . see the examples for more detail.

## Example

Input:

6		
4		
10		
15		
20		
321		
1020		
Output		
ouput		
1*4		
1*4 4*9		
1*4 4*9 3*12		
1*4 4*9 3*12 8*18		
1*4 4*9 3*12 8*18 245*320		
1*4 4*9 3*12 8*18 245*320 864*1014		

Score is length of your code.

See also: Another problem added 'and recommended (new!)' by Tjandra Satria Gunawan