Day 5: Laurene's new trouble problem

After generating account numbers, now Laurene is trying to break down any random number n into two distinct numbers x and y. According to her, the way she wants to break down that number n would be based on this equation: n = func1(x,y) + func2(x,y), where - func1(x,y) is the smallest integer such that both x and y divide it - func2(x,y) is the greatest integer that divides both x and y

Laurene wants you to output x, and y values. Sidenote: The solution for all the numbers always exists, so there is no exception.

Input Format

The first input line is a number that specifies the number of test cases m (1 ≤ m ≤ 1000000000) of the number. The second input line is the number n (2 ≤ n ≤ 100000000000000000000000000000000000) from which you will try to generate the x and y values.

Constraints

- (1 ≤ m ≤ 1000000000)

- (2 ≤ n ≤ 100000000000000000000000000000000000)

Output Format

The values x and y

Sample Input 0

```
2
2
14
```

Sample Output 0

```
1 1
13 1
```