# primes triangle (II)

Primes triangle is a triangle that contain all prime numbers.

```
2
3 5
7 11 13
17 19 23 29
```

Your task is very easy given an integer from 1 to 10<sup>9</sup> prints its place in the primes triangle.

## Input

in the first line integer  $1 \le T \le 10^4$ , followed by T lines each line contain integer  $1 \le n \le 10^9$ .

### **Output**

one line contain pair of integers i, j. where i is the row number and j is the column number, 1 base. or -1 if n not exist in the primes triangle.

## **Example**

#### Input:

з.

3

23

#### **Output:**

2 1

4 3

-1

if you find Time limit is small here you can solve the tutorial version here: <a href="http://www.spoj.com/problems/PTR22/">http://www.spoj.com/problems/PTR22/</a>