2175 - Prime Numbers Again

Description

The contestants are exhausted of prime number problems. But they certainly knows that coachs are evil and they will want to add another problem into this area. Given an integer X, the contestants should find the shortest interval [A,B] with X contained in it. Wait a second!, What are they doing? This is not a prime number problem, in fact this is simpler than A+B. Of course A and B should be ..... you know.

Input specification

The first line of input contains an integer M (1 <= M <= 100). M lines follow, each with a number X (1 < X <= 10^5).

Output specification

M lines containing A and B (1 < A <= B <= 10^6), B-A <= 10^4.

Sample input

```
2
2
4
```

Sample output

```
2 2
3 5
```

Hint(s)

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Addition date	2012-11-26

Time limit (ms)	1500
Test limit (ms)	1000
Memory limit (kb)	256000
Output limit (mb)	64
Size limit (bytes)	15000
Enabled languages	Bash C C# C++ Java Pascal Perl PHP Python Ruby Text