

# Number Breaking

Every number is multiplication of some prime numbers. Prime number is a number which is only divided by 1 and itself. Here you are given a number  $n$ . You have to find the prime numbers whose multiplication makes this number.

For example, 12 is multiplication of prime numbers 2 and 3. 15 is multiplication of 3 and 5.

## Input

First Line will contain the number of test cases  $T$ . Then each line will contain a single integer  $n$ .

**Constraints:**  $1 \leq T \leq 1000$ ,  $2 \leq n \leq 1000000$ .

## Output

For each test case print a single line which contains test case number and the prime numbers in ascending order separated by a single space whose multiplication make this number.

## Example

**Input:**

```
3
12
42
84
```

**Output:**

```
Case 1: 2 3
Case 2: 2 3 7
Case 3: 2 3 7
```