# 1109 – False Ordering

We define **b** is a Divisor of a number **a** if **a** is divisible by **b**. So, the divisors of 12 are 1, 2, 3, 4, 6, 12. So, 12 has 6 divisors.

Now you have to order all the integers from 1 to 1000. **x** will come before y if

1) number of divisors of **x** is less than number of divisors of **y**
2) number of divisors of **x** is equal to number of divisors of **y** and **x > y**.

## Input

Input starts with an integer **T (≤ 1005)**, denoting the number of test cases.

Each case contains an integer **n (1 ≤ n ≤ 1000)**.

## Output

For each case, print the case number and the **n**[th] number after ordering.

| Sample Input | Output for Sample Input |
|---|---|
| 5<br>1<br>2<br>3<br>4<br>1000 | Case 1: 1<br>Case 2: 997<br>Case 3: 991<br>Case 4: 983<br>Case 5: 840 |