**Dice Collection**

Nathan likes playing the hit game Dungeon and Dragons and because of this, he owns a wide variety of dice. Typically, we have ***d6*** dice, but in Nathan’s collection, he owns all the way up to a ***d100000.***

For this problem, we start out with **N** dice. Each dice is a dice with a number of faces between 4 and 100000. Nathan wants a good way of displaying the dice so he wants to see the longest straight you can make given **N** dice. A straight is when you can form the numbers 1…**N** using dice.

**Input:** The first line of input contains **T**, the number of test cases. Each test case is two lines. The first line contains **N**, the number of dice. The second line is **N** dice, each integer represents how many faces they have.

**Output:** The maximum number of dice that can be put in a straight.

**Example Input:**

2

4

6 10 12 8

6

5 4 5 4 4 4

**Example Output:**

Case #1: 4

Case #2: 5

**Explanation:** In case #1, you can form the numbers 1 – 4 using the dice in any order.

In case #2, none of the dice show a number greater than 6, so the largest straight we can achieve is 5. There are also multiple ways to form a straight of 5 dice.