# **Question 1 Lucky Ticket**

The rascal, Sakuta Azusagawa is superstitious. He has long admired his senior Mai Sakurajima. Today, he finally decided to date his senior. He chooses a romantic movie Suzume, and he plans to confess to his senior right after the movie ends. Unfortunately, he failed, blaming the serial number on the ticket. He believes that a "lucky ticket" should have at least 5 consecutive numbers that do not repeat.

Your task is to help him to find the lucky ticket.

#### **Input format**

The first line consist of 1 integer, n, as the total number of ticket.

Next, there are n line of integer, T, which is the serial number of ticket.

#### **Constraints**

- $1 \le n \le 10^4$
- $1 \le T_i \le 10^6, (1 \le i \le n)$

# **Output format**

Output the length of the longest substring without repeating characters and determine whether it is a lucky ticket or not. The output needs to be in:

Ticket #i: 1, t
Whereas i is the  $i^{th}$  ticket (starts from 1), l is the length of the longest substring without repeating characters, t is whether the ticket is lucky ( $\mathsf{T}$ ) or not ( $\mathsf{F}$ ).

# **Example**

### **Sample Input**

```
3
12345
182819
1234567891234
```

# Sample Output

```
Ticket #1: 5, T
Ticket #2: 4, F
Ticket #3: 9, T
```

### **Explanation**

The first ticket has 5 non repeating characters, which are  $\{1, 2, 3, 4, 5\}$ . Therefore, it is a lucky ticket.

Similarly, the second ticket has 4 non repeating characters, which are  $\{2, 8, 1, 9\}$ . Therefore, it is not a lucky ticket.

So as the last ticket is true since it has 9 non repeating characters, which are  $\{1, 2, 3, 4, 5, 6, 7, 8, 9\}$ . Therefore, it is a lucky ticket.