# **Problem A: Sarah and the study group**

#### **Statement:**

It is exams time at Insat so Sarah decided to create a study group to help her revise but they quickly encountered a problem after creating the group. They couldn't decide which subject to study first so they took a vote where each member voted on the topic he wants to study.

Help them find out the topic they will study first.

#### Input:

The first line contains a single integer T ( $1 \le T \le 100$ ) — the number of test cases. Then the test cases follow. Each test case consists of one line.

The first line of every test case contains a single integer n ( $1 \le N \le 10 \le p > 5 \le p > 1$ ).

The second line contains  $\mathbf{n}$  caracters c<sub>i</sub>, the name of the subject the i-th member voted on. (c<sub>i</sub> is an uppercase letter between 'A' and 'Z')

### **Output:**

For each test case, output the letter that is the name of the subject with the most votes. If there is a tie, output '#'.

## **Example:**

Input:

```
3
5
A B C D A
4
A B A B
1
X
```

Output:

A		
#		
X		