Problem M. Find the Easiest Problem

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	1024 megabytes

You are given all the submissions from an ICPC-style competition. For each submission, you know the team name, the problem ID, and whether the submission was accepted or rejected. Your task is to determine which problem was the easiest.

You may not be familiar with the ICPC rules, so here's a brief explanation:

- Each team can make multiple submissions for a problem. A team is considered to have solved a problem if at least one of their submissions for that problem is accepted.
- The number of teams that solved a problem is the number of distinct teams that have at least one accepted submission for that problem.

We define the easiest problem in the competition as the one that has been solved by the most teams. If there are multiple problems with the same number of teams solving them, the problem with the lexicographically smallest ID is considered the easiest.

Two teams are considered different if and only if their team names are different. Similarly, two problems are considered different if and only if their problem IDs are different.

Input

The first line contains an integer t ($1 \le t \le 1000$), the number of test cases.

For each test case:

The first line contains an integer n ($1 \le n \le 10^5$), the number of submissions.

Each of the next n lines contains a team name, a problem ID, and the result of the submission.

- The team name is a non-empty string consisting of at most 10 characters, which can include both uppercase and lowercase English letters.
- The problem ID is a single uppercase English letter ('A' to 'Z').
- The result of the submission is either `accepted` or `rejected`.

It is guaranteed that there is at least one `accepted` submission in every test case.

It is also guaranteed that the total number of submissions across all test cases does not exceed 10^5.

Output

For each test case, output a single line with the problem ID of the easiest problem.

Example

standard input	standard output
2 5 teamA A accepted teamB B rejected teamC A accepted teamB B accepted teamD C accepted 4 teamA A rejected teamB A accepted teamC B accepted teamC B accepted	A A