

You are given friend's name and the amount of money taken from him each time. Unfortunately, you only remember the 3 largest amounts of money taken from a particular friend. You have to find the amount of money and the friend who you have to repay the most.

Input Format

First line contains T - Number of test cases. First line of each test case contains N - Number of times money is borrowed. Next N lines contain a string S and an integer M - The name of friend & the amount borrowed.

Constraints

$T \leq 100$ $N \leq 50000$ $1 \leq M \leq 1000000000$ $1 \leq |S| \leq 10$, $|S|$ =Length of string S can contain both lowercase and uppercase characters Sum of lengths of string over all test cases ≤ 500000

Output Format

Print the friend's name and the amount of money that you have to pay him. If there is more than 1 friend satisfying the condition, print the name which is smallest(lexicographically).

Sample Input 0

```
2
7
John 100
Elon 50
Elon 200
Elon 50
John 150
John 50
Elon 100
5
Oliver 150
Oliver 100
Andy 200
Andy 250
Oliver 200
```

Sample Output 0

```
Elon 350
Andy 450
```