

Best students

Now, you are given the grades of courses of N students and your task is to compute and print out all students that had the best GPA. Remember that courses with grades smaller than 50 are not counted.

Input

The first line contains one positive integer N ($N \leq 10^5$) – the number of students.

2*N next lines contains the information of N students with the following format:

- The first line contains a string S ($1 \leq |S| \leq 20$) and a positive integer K ($K \leq 100$) – the name of the student and the number of courses that the student registered.
- The second line contains K integers – the grade of K courses.

Output

For each student that has the highest GPA among N students, print out the name and the GPA (rounded to nearest integer).

Sample

Input	Output
4	Khanh 85
Khanh 4	Cuong 85
80 80 90 90	
Duong 4	
70 70 80 80	
Cuong 4	
85 85 85 85	
An 5	
50 60 70 80 100	