

Score

After completing the mid-term exam, Lili wants to know who among her friends has a better grade than her. Lili already has a list of names and score of her friends, but because she has too many friends, it will become tiring to check one by one. Help her to find out who has a better grade than her.

Format Input

The first line of the input will consist of an integer T , the number of test cases. The first line of each test case is an integer N , the number of friends Lili has. The next N lines will consist of a string S and an integer A , denoting K -th friend's name and score. The last line of each test case will contain an integer B , denoting Lili's score.

Format Output

For each test case, print "Case #X:" (X starts at 1). Then print all her friends who score strictly higher than her, each on their own line in the same order as they appear. If no one score higher than her, print "No one".

Constraints

$1 \leq T \leq 100$

$0 \leq N \leq 100$

$0 \leq A \leq 100$

$0 \leq B \leq 100$

All names will be lowercase english characters and its length will be no more than 10.

It is also guaranteed that all the name will be distinct.

Sample Input (standard input)	Sample Output (standard output)
2 5 andi 83 boby 89 charlie 50 daniel 68 ethan 81 90 5 andi 83 boby 89 charlie 50 daniel 68 ethan 81 70	Case #1: No one Case #2: andi boby ethan