Write a program to identify the youngest person and the oldest person in a class.

## Input

The number $n(1 \leq n \leq 100)$ in the first line determines the number of people in a class. The following $n$ lines contain person's name and his/her birthdate.

The information in each line is of this format:
personName dd mm yyyy
where personName is a single word less than 15 letters, $d d$ mm yyyy are date, month and year of the birthdate.

Suppose that no one has the same name or the same birthdate.

## Output

Print out 2 lines containing the name of youngest person and oldest person, respectively.

## Sample Input

## 5

Mickey 1101991
Alice 30121990
Tom 1581993
Jerry 1891990
Garfield 2091990

## Sample Output

Tom
Jerry

