

Math Assignment

There are many brilliant professors in FCI-CU, one of the most brilliant professors is a Math professor called Ydah Ledba. Professor Ydah Ledba gave his students an assignment. Students were asked to do the following: Given a set of unique numbers, determine the 2 numbers with the largest average (The average of X and Y is $(X + Y) / 2$) from the set.

Help the students with their assignment.

Input

The first line contains a single integer T – the number of test cases ($1 \leq T \leq 100$). Then follows T lines, each line contains an integer N ($2 \leq N \leq 100$), and then N numbers ($0 \leq N_i \leq 1000$), separated by spaces.

Output

For each test case, print a single line containing the indices (1-based) of the 2 numbers separated by a single space, in ascending order.

Example

Input:

```
2
3 1 2 3
2 2 1
```

Output:

```
2 3
1 2
```