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## Coding Area

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### Relief Funds

#### — Problem Description

An NGO wants to arrange funds for flood relief. It has divided volunteers into groups. A volunteer can only be a part of single group. Your task is to identify the members of the group which collects the maximum funds. You will be given the funds collected by each volunteer and grouping pairs of the volunteers. You need group the volunteers through these pairs. If there are more than one group, collecting maximum funds, then print the group having lesser members.

#### — Constraints

$0 < N, P \leq 10000$

$0 < A, B \leq N$

#### — Input

First line contains one integer N, denoting number of volunteers.

Second line contains N space separated integers, representing the amount collected by each volunteer. The index of integer is the volunteer number starting from 1.

Third line contains the number of pairs, P.

Next P lines contain two space separated integers, A and B where A represents the first person and B represents the second person in the pair.

#### — Output

One line containing M space separated integers, where each integer represents the volunteer number of the member in the group, sorted in ascending order.

#### — Time Limit

2

#### — Examples

Example 1

Input

5

23 43 123 54 2

3

1 3

2 3

1 2

Output

1 2 3

Explanation

In the above example, we have five volunteer [1, 2, 3, 4, 5] who have collected [23, 43, 123, 54, 2] respectively.

We have three groups that consists of [1, 2, 3], [4, 5]. First group collects 189 units of money, second group collects 54 units of money and third group collects 2 units of money. Hence, the output is 1 2 3

Example 2

Input

5

10 10 10 15 15

3

1 2

1 3

4 5

Output

4 5

Explanation

In the above example, we have five volunteer [1, 2, 3, 4, 5] who have collected [10, 10, 10, 15, 15] respectively.

We have two groups that consists of [1, 2, 3], [4, 5]. First group collects 30 units of money and second group collects 30 units of money. But since, both groups collects the same amount. The output will be 4 5 as this group has lesser number of members.

Upload Solution [ Question : B ]

☐ I, **abhishek kumar** confirm that the answer submitted is my own.

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