There are Nstudents in a class. In games period they are made to stand in a circle and each one of them is given a unique random number, r. Here r_{1} is the random number assigned for the first student, r_{2} is the number assigned for the second student and so on.

**Function Description**

In this game, for all students except those at first and last positions the winning condition is , if the student is at position ‘i’ then he has won the game if r_{i-1} < r_{i} < r_{i+1}. For the first student to win the game, the winning condition is r_{n}<r_{1}<r_{2}. For the last student to win the game, the winning condition is r_{n-1}<r_{n}<r_{1}.

For example, if there are six students and they are assigned numbers 90, 25, 37, 28, 73, 84 then the numbers satisfying the conditions are 73, 84 and children winning the game are at positions 5 and 6.

If no one has won the game then print None. If there are six students and the numbers assigned are 35, 25, 37, 28, 84 and 73 then the output of the code should be None.

**Input Format**

The input contains space separated assigned numbers for each student.

**Note:** There can be multiple spaces between the numbers.

**Output Format**

Print the position of each child who has won the game in separate lines.

**Constraints**

**1**<=N**,r_i**<=10^3

**Sample Input**

1 2 3 4

**Sample Output**

2

3

**Explanation**

As the position 2 and 3 satisfies the conditions, they are printed in different lines.