Paisa Challenge

Raju and Shyam wants to earn some money since their film is still in the works. They meet a man who brings upon a sketchy deal in front of them. He instructs them to draw a number from a pot. The person will get the amount of money equal to the number drawn. There are certain conditions on this gamble:

- A person has to collect the numbers only N times.
- There is a chance for the number drawn to be -1. The total number of -1 that can appear after both have done their draws is >=1 or <=2.

Raju and Shyam finds that one of them will end up with less money than the other and have decided to share the money.

You need to find the number of ways in which we can replace each -1 with a non-negative integer, such that the amount of money with each of them is equal.

Input Format

- First line: An integer N
- Second line: N space-separated integers, depicting the numbers drawn by Raju.
- Third line: N space-separated integers, depicting the numbers drawn by Shyam.

Constraints

- 1<=N<=10^5
- -1<= Number Drawn <= 10^9
- -1's can be drawn by both or by one individual. The total number of -1 that can appear after both have done their draws is >=1 or <=2.

Output Format

If there exists a finite number Y, then print it. If the answer is not a finite integer, then print 'Infinite'.

Sample Input 0

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4
1 2 -1 4
3 3 3 1
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Sample Output 0

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1
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Explanation 0

We can replace the only -1 by 3, so that both of them have 10 in total