## Search for an integer using sequential search

Write a program to search for an element in an array of $n$ elements using sequential search algorithm.

## Input

Input begins with $t(1 \leq t \leq 100)$ of number of test-cases in the first line and the test-cases are in the following lines. Each test-case begins with $n(1 \leq n \leq 1,000,000)$ of number of integers $\left(-2^{31} \leq\right.$ integer $\left.\leq 2^{31}-1\right)$ in the array in a single line and followed by n lines having an integer in each line and the integer to be searched in a new line.

## Output

For each test-case, print the index ( $0 \leq$ index $\leq n-1$ ) of the first appearance of the search element in the array in a new line. Print ' -1 ' if the element is not found in the array.

## Example

## Input:

3
4
999999
0
-999999
1234
1234
4
999999
0
-999999
1234
-1234

4
999999
0
-999999
1234
999999

## Output:

3
-1
0

