1. Conference Schedule

A schedule has just been released for an upcoming tech conference. The schedule provides the start and end times of each of the presentations. Once a presentation has begun, no one can enter or leave the room. It takes no time to go from one presentation to another. Determine the maximum number of presentations that can be attended by one person.

Example

```
n = 3 scheduleStart = [1, 1, 2]
scheduleEnd = [3, 2, 4]
```

Using 0-based indexing, an attendee could attend any presentation alone, or both presentations 1 and 2. Presentation 0 ends too late to be able to attend presentation 2 afterwards. The maximum number of presentations one person can attend is 2.

Function Description

Complete the function *maxPresentations* in the editor below.

```
maxPresentations has the following parameter(s): 
 scheduleStart[n]: the start times of presentation i
 scheduleEnd[n]: the end times of presentation i
```

Returns:

int: the maximum number of presentations that can be attended by one person

Constraints

- $1 \le n \le 10^5$
- 1 ≤ scheduleStart[i], scheduleEnd[i] ≤ 10⁹

▼ Input Format For Custom Testing

The first line contains an integer, n, the number of elements in scheduleStart[]. Each line i of the n subsequent lines (where $0 \le i < n$) contains an integer that describes scheduleStart[i].

The next line contains an integer, n, the number of elements in scheduleEnd[]. Each line i of the n subsequent lines (where $0 \le i < n$) contains an integer that describes scheduleEnd[i].

▼ Sample Case 0

Sample Input

Sample Output

3

Explanation

An attendee can go to presentations 0, 2, and 3 without conflict. If presentation 1 is chosen, from time 1 to 3, only two presentations can be attended. The maximum number of presentations a single person can attend is 3.

▼ Sample Case 1

Sample Input

Sample Output

2

Explanation

An attendee can attend presentation 1 only as it runs the entire day, or they can instead attend meeting 2 from 2 until 4, then choose to attend either presentation 0 or 3. The maximum number of presentations a single person can attend is 2.