Venue Booker

Amir is a meeting room manager in the company that he works in. The staffs in the company resorts to Amir to book for the meeting room. In a given day, Amir has *N* number of bookings for meetings with their start time and finish time. Amir's job is to allocate the meeting room for as many meeting bookings assuming the room can only accomodate a single meeting at a given time.

Note: The start time and end time of any two activities may coincide.

Input Format

The first line contains an integer *N*, which is the number of bookings for the meeting room. The second line contains *N* integers separated by a space, which are the starting time of each booked meeting. The third line contains *N* integers separated by a space which are the finishing time of each booked meeting.

Constraints

- **The number of bookings, N:** A positive integer where (1 <= N <= 100) .
- **The starting time of the i-th booking, S:** A positive integer where (0 <= Si <= 1000).
- **The finishing time of the i-th booking, F:** A positive integer where (0 < Fi <= 1000) and Si < Fi

Output Format

Output the maximum number of meetings that could be allocated in the meeting room.

Sample Input 0

```
6
1 3 0 5 8 5
2 4 6 7 9 9
```

Sample Output 0

```
4
```