**Algorithms with Java: Exam**

Please submit your solutions (source code) to all below-described problems in [Judge](https://judge.softuni.org/Contests/Compete/Index/3563#0).

1. **Trains**

As a promising tinker, you are part of Dick Simnel’s locomotion scheduler team.

Given a schedule containing the arrival and departure time of trains in a station, find the minimum number of platforms needed to avoid delay in any train’s arrival.

## Input

* The input will come from the console on two lines:
  + The first line will be a sequence of numbers representing the train **arrival** times.
  + The second line will be a sequence of numbers representing the train **departure** times.

## Output

* The output is a single integer representing the minimum number of platforms, so no trains are delayed.

## Constraints

* The input numbers will be valid floating-point numbers representing 24h clock system as an example  
  [1.30, 14.20, 6.50, 4.20] etc.
* When two trains are scheduled to arrive and depart simultaneously, depart the train first.
* Arrivals and departures will always be sequences with equal length.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 2.00 2.10 3.00 3.20 3.50 5.00  2.30 3.40 3.20 4.30 4.00 5.20 | 2 |
| 14.00 14.10 00.40 14.10 1.50  14.50 14.40 23.50 14.20 2.00 | 4 |

“Everything is magic when you don’t know what it is. Your sliding rule is a magic wand to most people.”  
**― Terry Pratchett, Raising Steam**