# Socks

You will be given two sequences of integers representing socks – left and right socks.

We are trying to connect each sock from one side with the corresponding sock on the other side. Find the **longest sequence that appears in the same relative order**, but not necessarily contiguous.

## Input

* You will receive 2 arrays of integers – **left and right socks** – in the following format: "{sock1} … {sockN}".

## Output

* Print the length of the longest sequence that appears in the same relative order.

## Constraints

* Prices will be integers in the range **[1… 2 147 483 647]**.
* The input arrays will always contain at least **1 element**.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 31 41 29 32 42 40 26  31 30 32 42 28 29 29 | 3 |
| 32 32 29 32 29  29 32 32 29 32 | 4 |