**Algorithms Advanced with C#: Exam**

**3. Code**

The clacks towers are sending a very urgent coded message, your task is to decode it. The messages travel as integers.  
You will be given **two** **sequences** of integers representing **two** **separate** messages in which the code is hidden. You need to **decode** it. To decode it you must find the equal parts from both messages that are with the longest length.

## Input

* Two lines of integers separated by spaces those are the messages

## Output

* On the firstline print the decoded message**,** it should be the rightmost
* On the second line print the length

## Constraints

* The length of the messages will be between [**1…5000**]

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 7 42 8 4 13 21 6  7 32 8 13 19 6 | 7 8 13 6  4 |
| 7 6 5 4 3 2 1  7 10 6 12 5 13 4 14 3 15 2 16 1 17 | 7 6 5 4 3 2 1  7 |

“Did I do anything last night that suggested I was sane?”  
― **Terry Pratchett,**[**Going Postal**](https://www.goodreads.com/work/quotes/1636617)