# Problem 2 – Rainer

Тествайте задачата в judge: <https://judge.softuni.bg/Contests/2675/Практически-изпит-10-12-2017>

A Rainer is like a runner but in Rain. One who runs from the Rain. Donald is one good Rainer and he created a game where he dodges raindrops at lightning fast speed through some incomprehensible logic.

You will receive a **sequence** of **integers** – each of those integers, **except** the **last one**, **form** the **game field**.   
You must take the **last integer** from that sequence – that is the **initial index** at which **Donald steps**.

The game goes so – you must **decrease all** of the **integers** in the **sequence’ values** by **1**.   
Then you must **read** an **integer** – the **next index** at which **Donald steps**.   
You must **repeat** these steps until **Donald** gets **wet**.

If an integer **reaches 0**, that means a **raindrop** has **fallen there**. If **Donald** is **on that position**, he gets **wet**.

If an integer **reaches 0**, and **Donald** is **not there**, you must **return** the **integer** to its **original value**. (**initial** value)

When **Donald** gets **wet**, the **program ends**, and you must print the **current** **sequence** of **integers**, and the **count** of **steps** **Donald has made** (the **initial** index **does not count** as a step)

## Input

* On the **first input line** you will get the **sequence** of **integers**, **separated** by **spaces**.
* On the **next several input lines** you will be **getting integers** – the **indexes**.

## Output

* As output you must print the **sequence of integers**, **separated** by **spaces**, on one line.
* Then you must print the **steps Donald has made** on the **second line**.

## Constraints

* The **count** of the **integers** in the **sequence** will be **[3, 100]**.
* The **integers** in the **sequence** will be in **range [2, 100]**.
* The **indexes** that will be **given** to you will **always** be **valid** and **inside** the **sequence**.
* Allowed working **time** / **memory**: **100ms** / **16MB**.

## Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 5 2 3 4 5 3  0  1  4  1  1 | 4 0 0 2 4  5 | Sequence – 5 2 3 4 5, Initial Index – 3  We decrease all by 1, Sequence – 4 1 2 3 4  We check if Donald is on an element 0. He is not, so we read next step. Index – 0. Steps – 1.  Sequence – 3 0 1 2 3. There is an element with value 0, but Donald is not there, we return it to its original value (2).  Sequence – 3 2 1 2 3. Index – 1. Steps – 2.  Sequence – 2 1 3 1 2. Index – 4. Steps – 3.  Sequence – 1 2 2 4 1. Index – 1. Steps – 4.  Sequence – 5 1 1 3 5. Index – 1. Steps – 5.  We decrease by 1, and it gets 4 0 0 2 4. Donald is on Index 1 – which is currently 0. He dies. No other steps are made, and the program ends. |
| 2 3 4 5 6 2  1  2  3  4  0 | 0 0 2 4 0  5 |  |

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