# Mini Exam: Arrays

You can check your solutions here: <https://judge.softuni.bg/Contests/3171/Additional-Exercises>.

## Something in Common

Write a program, that **compares** **the elements** of **two given arrays**. **Compare** the elements of the **second array** to the the **first** and **print** on the console **only the equal ones** in the order you found it.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| Be friend 2 me  5 Hi 2 friend | 2 friend |
| Y in t for q  in q 11 for | in q for |
| What passion is coding  coding is passion | coding is passion |

## Everything in Common

You are given **two arrays of integers**. **Compare** them and according to the case whether all of their **elements are equal**, **print** a message on the console:

* If they are **identical**:

**"**Arrays are identical."

* If **not**:

**"**Arrays are not identical.**"**

In case the arrays are **identical**, print on a new line the **sum** of all elements in **one of the arrays** with the message:

**"**Sum: {sum}**"**

In the other case, print a message pointing the **first index** where the arrays **become different** in the format:

"Found difference at {index} index"

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 16 21 29  16 21 29 | Arrays are identical.  Sum: 66 |
| 5 4 3 2 1  5 4 3 3 1 | Arrays are not identical.  Found difference at 3 index |
| 11  110 | Arrays are not identical.  Found difference at 0 index |

## Nothing in Common

You are given an **array of integers** on the first line of the input and **a number** on the second. You need to find **all the unique pairs** of **any two elements** in the array, whose **sum** **is equal to the given number**.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 2 7 5 4 11 22  9 | 2 7  5 4 |
| 13 20 50 0 7 14 6  20 | 13 7  20 0  14 6 |