## **Taxi Express**



You have created your own taxi company called "Taxi Express". You want to analyze how well your taxi drivers are doing by calculating how much time they need to tend the customers.

You will receive a list of the cutomers (numbers seperated by comma and space ", ") on the first line and list of your taxis (numbers seperated by comma and space ", ").

Each number from the customer list represents how much time it takes to drive the customer to his/her destination.

Each number from the taxis list represents how much time they can drive, before they need to refill their tanks.

Keep track of the **total time** passed to drive all the customers to their destinations (values of all customers).

Each time you tend customers you should put the first customer in the last taxi until there are no customers left.

- If the taxi can drive the customer to his/her destination, he does and you must add the time passed to drive the customer to his/her destination (the value of the current customer) to the total time. Remove both the customer and the taxi.
- If the taxi cannot drive the customer to his/her destination, leave the customer at the beginning of the queue and remove the taxi.

At the end if you have successfully driven all the customers to their destinations, print

All customers were driven to their destinations

Total time: {total\_time} minutes

Otherwise, if you ran out of taxis and there are still some customers left print

Not all customers were driven to their destinations

Customers left: {left\_customers joined by ", "}

#### Input

- On the first line you are given the customers numbers seperated by comma and space ", "
- On the **second line** you are given the **taxis numbers** seperated by comma and space ", "

#### Output

Print the output as described above

#### Constraints

You will always have at least one customer and at least one taxi



















# **Examples**

Input	Output
4, 6, 8, 5, 1 1, 9, 15, 10, 6	All customers were driven to their destinations Total time: 24 minutes
10, 5, 8, 9 2, 4, 5, 8	Not all customers were driven to their destinations Customers left: 10, 5, 8, 9
2, 8, 4, 3, 11, 7 10, 15, 4, 6, 3, 10, 2, 1	All customers were driven to their destinations Total time: 35 minutes









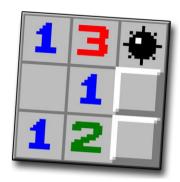








# **Minesweeper Generator**



Everybody remembers the old mines game. Now it is time to create your own.

You will be given an integer n for the size of the mines field with square shape and another one for the number of bombs that you have to place in the field. On the next n lines, you will receive the position for each bomb. Your task is to create the game field placing the bombs at the correct positions and mark them with "\*", and calculate the numbers in each cell of the field. Each cell represents a number of all bombs directly near it (up, down, left, right and the 4 diagonals).

*	2	*
2	3	2
1	*	1

*	2	*
2	3	2
1	*	1

*	2	*
2	3	2
1	*	1

## Input

- On the first line, you are given the integer **n** the size of the **square** matrix.
- On the second line the **number** of the **bombs**.
- The **next n lines** holds the position of each **bomb**.

## Output

Print the matrix you've created.

#### **Constraints**

• The size of the **square** matrix will be between [2...15].

## **Examples**

Input Output
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4	1 1 2 *
4	1 * 3 2
(0, 3)	2 3 * 1
(1, 1)	* 2 1 1
(2, 2)	
(3, 0)	
5	1 1 1 0 0
3	1 * 1 1 1
(1, 1)	1 1 1 1 *
(2, 4)	1 1 1 1 1
(4, 1)	1 * 1 0 0

















## Numbers search

Write a function called **numbers\_searching** which receives a **different amount** of parameters. All parameters will be integer numbers forming a sequence of consecutive numbers. Your task is to find an unknown amount of duplicates from the given sequence and a missing value, such that all the duplicate values and the missing value are between the smallest and the biggest received number.

The function should return a list with the last missing number as a first argument and a sorted list, containing the duplicates found, in ascending order.

For example: if we have the following numbers: 1, 2, 4, 2, 5, 4 will return 3 as missing number and 2, 4 as duplicate numbers in the following format: [3, [2, 4]]

### Input

- There will be no input
- Parameters will be passed to your function

### **Output**

The function should return a list in the following format: [missing number, [duplicate\_numbers separated with comma and space]]

### **Constraints**

The missing number will always be between the smallest and the biggest received number

## **Examples**

Input	Output
<pre>print(numbers_searching(1, 2, 4, 2, 5, 4))</pre>	[3, [2, 4]]
<pre>print(numbers_searching(5, 5, 9, 10, 7, 8, 7, 9))</pre>	[6, [5, 7, 9]]
print(numbers_searching(50, 50, 47, 47, 48, 45, 49, 44, 47, 45, 44, 44, 48, 44, 48))	[46, [44, 45, 47, 48, 50]]















