

# Problem 1

First you will be given a **sequence of integers representing males**. Afterwards you will be given another **sequence of integers representing females**.

You have to start from the **first female** and try to match it with the **last male**.

- If their **values** are **equal**, you have to **match them** and **remove both** of them. Otherwise you should **remove only the female** and **decrease the value of the male** by 2.
- If someone's value is **equal to or below 0**, you should **remove him/her** from the records **before** trying to **match** him/her with anybody.
- Special case - if someone's **value divisible by 25 without remainder**, you should **remove him/her and the next person of the same gender before trying to match** them with anybody.

You need to **stop matching** people when you have **no more females or males**.

## Input

- On the **first line** of input you will receive the integers, representing the **males**, separated by a **single space**.
- On the **second line** of input you will receive the integers, representing the **females**, separated by a **single space**.

## Output

- On the first line of output - print the number of successful matches:
  - **"Matches: {matchesCount}"**
- On the second line - print all males left:
  - If there are no males: **"Males left: none"**
  - If there are males: **"Males left: {maleN}, ... , {male3}, {male2}, {male1}"**
- On the third line - print all females left:
  - If there are no females: **"Females left: none"**
  - If there are females: **"Females left: {female1}, {female2}, {female3},..., {femaleN}"**

## Constraints

- All of the given numbers will be valid integers in the range [-100, 100].

## Examples

Input	Output	Comment
4 5 7 3 6 9 12 12 9 6 1	Matches: 3 Males left: 1, 7, 5, 4 Females left: none	The first pair is the <b>first female</b> with value of 12 and the <b>last male</b> of value 12, their <b>values are equal</b> , so we <b>match them</b> , therefore - <b>remove them</b> from the <b>records</b> . Then we have <b>two more matches</b> (9 == 9 and 6 == 6). But the value of the <b>next male is 3</b> and the value of the <b>next female is 1</b> , it's <b>not a match</b> and we <b>remove the female</b> and <b>reduce the male's value</b> by 2. Then, we <b>print</b> the desired <b>output</b> .
3 0 3 6 9 0 12 12 9 6 1 2 3 15 13 4	Matches: 4 Males left: none Females left: 15, 13, 4	

## Problem 2

You will be given a **string**. Then, you will be given an **integer N** for the **size** of the field with **square** shape. On the next **N** lines, you will receive the **rows** of the field. The player will be placed on a **random position**, marked with "**P**". On **random positions** there will be **letters**. **All of the empty positions** will be marked with "**-**".

Each turn you will be given commands for the **player's movement**. If he moves to a **letter**, he **consumes** it, **concatenates** it to the **initial string** and the letter **disappears from the field**. If he tries to move **outside** of the field, he **is punished** - he **loses the last letter in the string, if there are any**, and the **player's position is not changed**.

At the end **print all letters and the field**.

### Input

- On the **first line**, you are given the **initial string**
- On the **second line**, you are given the integer **N** - the size of the **square** matrix
- The **next N lines** holds the values for every **row**
- On the next line you receive a **number M**
- On the **next M lines** you will get a move **command**

### Output

- On the first line the **final** state of the **string**
- In the end print **the matrix**

### Constraints

- The size of the **square** matrix will be between **[2...10]**
- The **player position** will be **marked** with "**P**"
- The **letters** on the field will be **any letter except** for "**P**"
- Move commands will be: "**up**", "**down**", "**left**", "**right**"

## Examples

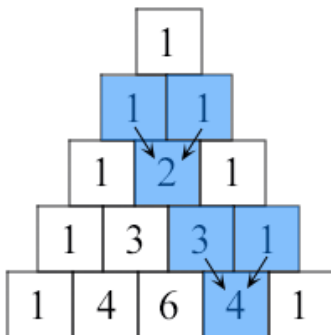
Input	Output	Comments
Hello 4 P--- Mark -1-y --e- 4 down right right right	HelloMark ---- ---P -1-y --e-	<p>The initial string we receive is "Hello". Then we receive 4x4 field and the player is on index [0;0].</p> <p>Then, we start receiving commands. First the player moves to [1;0], where he consumes 'M', and then all letters on the right. Our string is "HelloMark" and the player is on index [1;3].</p>
Initial 5 ----- t-r-- --Pa- --S-- z--t- 4 up left left left	Initialr ----- P----- ---a- --S-- z--t-	<p>The initial string we receive is "Initial". Then we receive 5x5 field and the player is on index [2;2]. The player consumes 'r' and 't', but also tries to go out of the matrix once, so he loses the last character of his string - 't'.</p>

## Problem 3

Create a function called `get_magic_triangle` which will receive a **single parameter** (integer `n`) and it should create a magic triangle which follows those **rules**:

- We start with this simple triangle `[[1], [1, 1]]`
- We generate the **next rows** until we reach `n` amount of rows
- **Each number** in each row is equal to the **sum** of the **two numbers** right **above it** in the triangle
- If the current number has **no neighbor** to the upper **left/right**, we just take the **existing neighbor**

After you create the magic triangle, **return** it as a **multidimensional list**. Here is an example with `n = 5`



**Note:** Submit only the function in the judge system

### Input

- There will be **no inputs**
- The function will be tested by passing different values of `n`
- You can test your function with the test code below

### Constraints

- `N` will be in range `[2, 100]`

### Examples

Test Code	Output
<code>get_magic_triangle(5)</code>	<code>[[1], [1, 1], [1, 2, 1], [1, 3, 3, 1], [1, 4, 6, 4, 1]]</code>