Dating App

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**. 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: {male1}, {male2}, {male3}, (…)`"
- 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}, (…)`"

Constraints

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

Examples

Input	Output	Comment
3 6 9 12 12 9 6 1 25 25	Matches: 3 Males left: 1 Females left: none	The first pair is the **first female** with value of 12 and the **last male** of value 12, their **values are equal**, so we **match them,** therefore - **remove them** from the **records**. Then we have **two more matches** (9 == 9 and 6 == 6). But the value of the **next male is 3** and the value of the **next female is 1**, it's **not a match** and we **remove** the **female** and **reduce** the **male's value** by 2. We have a **female** whose **value** is **25** and we have to **remove her** and the **next female**.Then, we **print** the desired **output**.
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	