# Summer Cocktails



*It's summer and because it's so hot, you and your friends decide to refresh yourself with some cocktails. Your job is to mix them according to different ingredients and their freshness value.*

First you will receive a sequence of **integers**, representing the number of ingredients in a single basket. After that you will be given another sequence of **integers** - the freshness level of the ingredients.

Your task is to **mix** them so you can produce the cocktails listed in the table below with the exact freshness level.

|  |  |
| --- | --- |
| **Cocktail** | **Freshness Level needed** |
| Mimosa | 150 |
| Daiquiri | 250 |
| Sunshine | 300 |
| Mojito | 400 |

To mix a cocktail, you have to take the **first** **ingredient** **value** and the **last freshness level value**. The total freshness level is calculated by their **multiplication**.

* If the product of this operation **equals** one of the levels described in the table, you make the cocktail and **remove both** ingredient and freshness value.
* **Otherwise** you should **remove the freshness level**, then **increase** the ingredient value by **5**
  + **Remove it from the collection and add it again, already increased by 5**.
* In case you have an ingredient with value **0** you have to **remove** it and continue mixing the cocktails.

You need to **stop** **making** cocktails **only** when you **run out of ingredients** **or freshness level** values.

Your task is considered **done** if you make at least **four** cocktails - **one of each type**.

## Input

* The first line of input will represent the ingredients' values - **integers**, separated by **single space**
* On the second line you will be given the freshness values - **integers** again, separated by **single space**

## Output

* On the first line of output - print if you've succeeded in preparing the cocktails
* **"It's party time! The cocktails are ready!"**
* **"What a pity! You didn't manage to prepare all cocktails."**
* On the next output line - print the **sum** of the ingredients **only** if they are left **any**
* On the last few lines you have to print the cocktails you have made ordered **alphabetically, but only the ones that were made at least once** in the format:

**" # {cocktail name} --> {amount}"**

## Constraints

* All of the ingredients' values and freshness level values will be **integers** in range **[0, 100]**
* We can have **more than one** mixed cocktails of the types specified in the table above

## Examples

|  |  |  |
| --- | --- | --- |
| ****Input**** | ****Output**** | ****Comment**** |
| **10 10 12 8 10 12**  **25 15 50 25 25 15** | **It's party time! The cocktails are ready!**  **# Daiquiri --> 1**  **# Mimosa --> 2**  **# Mojito --> 1**  **# Sunshine --> 2** | First you take the **first** ingredient and the **last** freshness level value and **multiply** them - the result is 150 so we **make** Mimosa cocktail. Next we have product of 250 and the Daiquiri cocktail is **ready**. Then we **mix** the Sunshine cocktail by multiplying 12 and 25. The product of next ingredient value and freshness level value is 400 and we **make** Mojito cocktail. Next pair is 10 and 15, we multiply them and mix one more Mimosa. The last multiplication of 12 and 25 equals 300 and we make one more Sunshine. There are **no more ingredients and freshness values** so we stop mixing cocktails, but we have **one of each** cocktail types and print the **proper** message. |
| **12 20 0 6 19**  **12 12 25** | **What a pity! You didn't manage to prepare all cocktails.**  **Ingredients left: 55**  **# Sunshine --> 1** | **The first pair is 12 and 25, we mix Sunshine cocktail and remove both of them.  Next we take 20 and 12 - the product is 240 - we can't mix a cocktail, so we remove the freshness level value and increase the ingredient value with 5. The next ingredient has value 0 - we remove it and continue.  The next pair is 6 and 12 - again we can't make a cocktail. After that we don't have more freshness level values, so we stop mixing drinks. The rest of the ingredients are 19, 25, 11 with sum of 55.** |