

Bouquets



You want to go on a bouquets competition but to participate you have to make at least 5 bouquets.

You will be given **two sequences of integers, representing daffodils and tulips**. You need to start making bouquets **knowing that one bouquet needs 15 flowers**. Your goal is to make **at least 5 bouquets**.

You will start crafting from the **last tulips** and the **first daffodils**. If the **sum** of their values is **equal to 15** – **create one bouquet** and **remove** them. While the sum is **bigger than 15**, keep **decreasing** the value of the **tulips by 2**. If the sum is **less than 15** you have to **store them for later and remove them**. You need to **stop** combining when you have **no more daffodils or tulips**. In the end, if you have **any stored flowers** you should make **as many bouquets as you can with them**.

Input

- On the **first line**, you will receive the integers representing the **tulips, separated by ", "**.
- On the **second line**, you will receive the integers representing the **daffodils, separated by ", "**.

Output

- Print whether you have succeeded making **at least 5 bouquets**:
 - "You made it! You go to the competition with {count of bouquets} bouquets!"
 - "You failed... You need more {number} bouquets."

Constraints

- All of the given numbers will be valid integers in the range **[0, 120]**.
- Don't have situation with negative number.

Examples

Input	Output
10, 15, 2, 7, 9, 13 2, 10, 8, 12, 0, 5	You made it! You go to the competition with 5 bouquets!
Comment	

We start with the last tulips (13) and the first daffodils (2) -> $13 + 2 = 15$ -> $15 = 15$ So we create one bouquet and remove them both.

Next we have $9 + 10 = 19$ -> $19 > 15$ so we decrease the tulips by 2 -> $7 + 10 = 17$ and we decrease the tulips by 2 -> $5 + 10 = 15$ and we create one more bouquet and remove them.

Next, we have $7 + 8 = 15$. We create one more bouquet and remove them.

Next, we have $2 + 12 = 14$ -> $14 < 15$ so we have to store their sum for later and remove them.

Next, we have $15 + 0 = 15$ so we create one more bouquet.

And last we have $10 + 5 = 15$, we create one more bouquet and stop mixing because we don't have any flowers left.

Now we have a total of 5 bouquets and we also have 14 flowers left but we can't create bouquet because $14 < 15$.

Input	Output
10, 5, 3, 7, 8 5, 10, 8, 7, 6	You failed... You need more 1 bouquets.
Comment	
We start with $8 + 5 = 13$ -> $13 < 15$ -> we have to store their sum for later and remove them. Next, we have $7 + 10 = 17$ -> we decrease the tulips by 2 -> $5 + 10 = 15$ -> $15 = 15$ and we create one bouquet. Next, we have $3 + 8 = 11$ -> $11 < 15$ -> we store their sum for later and remove them. Next, we have $5 + 7 = 12$ -> we store their sum for later and remove them. Next, we have $10 + 6 = 16$ -> $16 > 15$ we decrease the tulips by 2 -> $8 + 6 = 14$ and we store their sum for later and remove them. We stop crafting because we don't have any flowers left and we have 1 bouquet and 50 stored flowers. We create 3 more bouquets because $3 * 15 = 45$ -> $50 - 45 = 5$ -> $5 < 15$.	