# Collecting Eggs

*Old MacDonald wants to fill some boxes with eggs. But he has a big farm, and he will need some help.*

On the first line, you will receive a sequence of **numbers**, each representing an **egg with its size**. On the second line, you will receive another sequence of **numbers**, each representing **a piece of paper with its size**.

You should **take the** **first egg** and wrap it with the **last piece of paper**. Then, try to put it in a **box** with a **size of 50**. Each **wrapped-in-a-paper egg** fills **one** **box** if it fits in it. Your task is to check **whether you have filled at least one box**.

You should comply with the following conditions:

* If the egg is not fresh anymore (**its size is** **less than or equal to 0**), you need to **remove it from the sequence before** it is wrapped with a piece of paper.
* If the **sum** of the egg's size and the paper's size is **less than or equal to the box's size** (50), **put the wrapped egg in the box** and **remove both** from the sequences.
  + Otherwise, you **cannot fill a box**, so **remove** **both** the egg and the paper from the sequences **without putting them in a box**.
* During your work, you noticed that Old MacDonald is superstitious. If the **size of an egg is** **13** it brings bad luck to him. You should **remove this egg** from the sequence **before** it is wrapped with a piece of paper.
  + Furthermore, each time you take an egg with a size of 13, it will be best to **swap the first and last pieces of paper positions** to bring the good luck back to Old MacDonald.
    - Note: There will be **NO case** where there will be just **one piece of paper** left.

For more clarification see the examples below.

### Input

* In the **first line,** you will be given a **sequence of eggs with their sizes** - **integers** separated by comma and space **", "** in the range **[-100, 100]**
* In the **second line,** you will be given a **sequence of pieces of paper with their sizes** - **integers** separated by comma and space **", "** in the range **[1, 100]**

### Output

* On the first line:
  + If you have **at least one box filled**, print:
    - **"Great! You filled {total count} boxes."**
* If you **couldn't fill any boxes**, print:
  + **"Sorry! You couldn't fill any boxes!"**
* On the following lines, print the eggs left or pieces of paper left **if there are any**:
* **Eggs left: {left eggs joined by ", "}**
* **Pieces of paper left: {left pieces of paper joined by ", "}**

### Constraints

* You will always have **at least one egg** and **at least one piece of paper**.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 20, 13, -7, 7  10, 5, 20, 15, 7, 9 | Great! You filled 2 boxes.  Pieces of paper left: 7, 5, 20, 15 |
| **Comment** | |
| 1) The first egg (20) is wrapped with the last piece of paper (9). We put them in a box and remove them from the sequences.  2) The second egg (13) brings back luck so it's removed. Then the first piece of paper (10) is switched with the last piece of paper (7).  3) The third egg (-7) is not fresh, so we remove it.  4) The fourth egg (7) is wrapped with the last piece of paper (10). We put them in a box and remove them from the sequences. Remove them both.  5) We successfully filled 2 boxes. | |
| **Input** | **Output** |
| 2, 4, 7, 8, 0  5, 6, 2 | Great! You filled 3 boxes.  Eggs left: 8, 0 |
| **Input** | **Output** |
| 12, 23  28, 40 | Sorry! You couldn't fill any boxes! |