# 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 egg numbers, separated by comma and space ", ". Each number will represent the size of the egg. On the second line, you will receive a sequence of pieces of paper numbers, separated by comma and space ", ". Each number will represent the size of the piece of paper. You will have to wrap the eggs in the paper in order not to break the eggs when putting them inside the boxes.*

*Your task is to check whether* ***all eggs are collected and whether you have filled at least one box (With*** *each successfully wrapped egg you will fill* ***one*** *box. Every box will have a size:* ***50****).*

*To do that you should take the* ***first egg's size*** *and the* ***last piece of paper's size*** *and check for the following conditions:*

* *If an egg is with a negative size(****less than or equal to 0****),that means the egg is not fresh anymore and you need to* ***remove it from the sequence before*** *it can be wrapped by a piece of paper.*
* *If the sum of the size of the egg and the size of the piece of paper is* ***less than or equal to the size of the box****, that means the egg will be successfully wrapped and put in the box.* ***Remove both the egg and the paper*** *from their sequences.*
* *If the number of the egg is* ***13*** *this will be a problem. These eggs are bringing bad luck to Old MacDonald. You should immediately* ***take this eggs out*** *of the sequence. There is one more thing. Whenever you have a number 13 egg you should* ***swap the positions of your first and last pieces of paper****.*

*Don't forget to keep track of your* ***filled boxes****!*

### Input

* On the **first line** you will be given a sequence of egg sizes each represented as a number – **integers** separated by comma and space **", "**
* On the **second line** you will be given a sequence of pieces of paper sizes – **integers** separated by comma and space **", "**

### Output

* If all eggs are successfully wrapped and if you have at least one box filled, print:
* **All eggs are successfully collected!**
* **Total boxes filled: {total count}**
* **Pieces of paper left: {left pieces of paper joined by ", "}**
* **If you ran out of pieces of paper and there are still some eggs left, print:**
* **Not all eggs are collected.**
* **Eggs left: {left eggs joined by ", "}**
* **If for some reason you run out of pieces of paper and at the same time you have collected all your eggs, print:**
* **All eggs are successfully collected!**
* **Total boxes filled: {total count}**
* **Pieces of paper left: 0**
* **If you have managed to wrap some eggs but couldn't fill any boxes, print:**
* **Sorry! You couldn't fill any boxes!**

### Constraints

* You will always have **at least one egg** and **at least one piece of paper.**
* All integers will be in range **[-100, 100]**

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 20, 14, 7  10, 5, 20, 15, 7, 9 | All eggs are successfully collected!  Total boxes filled: 3  Pieces of paper left: 10, 5, 20 |
| **Comment** | |
| 1) The first egg (20) is successfully wrapped with the last piece of paper (9). Remove them both.  2) The second egg (14) successfully wrapped with the last piece of paper (7). Remove them both.  3) The second egg (15) successfully wrapped with the last piece of paper (7). Remove them both.  4) All eggs are being wrapped and put in boxes! | |
| **Input** | **Output** |
| 2, 4, 7, 8  5, 6, 2 | Not all eggs are collected.  Eggs left: 8 |
| **Comment** | |
| 1) The first egg (2) is successfully wrapped with the last piece of paper (2). Remove them both.  2) The first egg (4) is successfully wrapped with the last piece of paper (6). Remove them both.  3) The first egg (7) is successfully wrapped with the last piece of paper (5). Remove them both.  4) We run out of pieces of paper before our eggs finish. | |
| **Input** | **Output** |
| 12  1 | All eggs are successfully collected!  Total boxes filled: 1  Pieces of paper left: 0 |
| **Input** | **Output** |
| 12, 13  10, 20, 30, 40 | Sorry! You couldn't fill any boxes! |