# Problem 2. Lists

## Input / Constraints

You will be given a **single line of elements** (**integers**), **separated** with **one or more spaces**. You should check if **all** **elements in the line are unique**. If they are you should increase the value of every **even** number in the collection with the number of **2** and print the list on single row in **ascending order** separated by ",".

If they are **not unique** you should increase every **odd** number in the collection with **3** and print them on single row, in **ascending order** separated with ":".

On the next line you should print **sum** of the all elements, after you have increased them with the proper values, **divided** by the **count** of the elements in the list.

You should do that until you receive the command "**stop playing**".

## Output

* If the elements are unique you should print:  
  **Unique list:** {elements in the list, separated by ","}  
  **Output:** {sum of all elements divided by the length of the list} - (Formatted to the second digit)
* If the elements are not unique you should print:  
  **Non-unique list:** {elements in the list, separated by ":"}  
  **Output:** {sum of all elements divided by the length of the list} - (Formatted to the second digit)

## Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 1 2 3 4 5 6  1 1 2 2 1 4 7 7 8 8  5 5 5 5  stop playing | Unique list: 1,3,4,5,6,8  Output: 4.50  Non-unique list: 2:2:4:4:4:4:8:8:10:10  Output: 5.60  Non-unique list: 8:8:8:8  Output: 8.00 | First is unique so we add to every even elemnt 2. \the list looks like this: 1, 4, 3, 6,5,8  After that we order them by ascending and the same list looks like this: 1,3,4,5,6,8  Output = 1+3+4+5+6+8 = 27/6 = 4.50  The elements in the list are not unique, so we add to every odd element 3. [\\\\\The](file:///\\\\\The) list looks like this: 3:3:2:2:3:1:10:10:8:8.We order them by ascending and it becomes: 2:2:4:4:4:4:8:8:10:10  Output 56/10 = 5.60  The elements are not unique so we add to every odd eleme:nt 3 and becomes like this: 8:8:8:8  Output: 32/4 = 8 |
| **Input** | **Output** | **Comments** |
| 1 1 1  stop playing | Non-unique list: 4:4:4  Output: 4.00 |  |