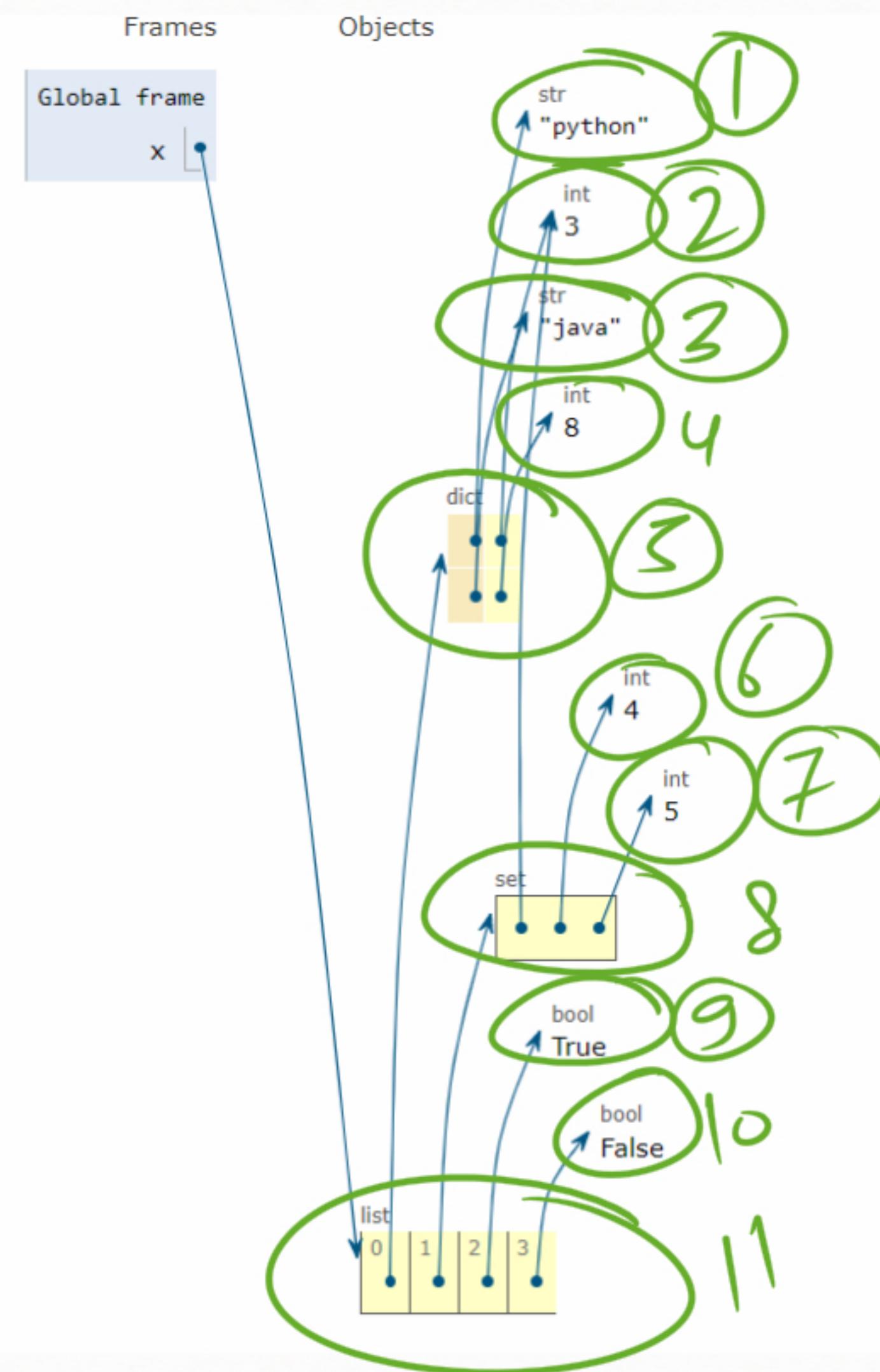


A screenshot of a Python debugger interface. On the left, there is a code editor window with the following code:x=[{'python':3,'java':8},(3,4,5),True,False]The line `x=[{'python':3,'java':8},(3,4,5),True,False]` is highlighted with a green oval. A green arrow points from the variable `x` in the code to its corresponding entry in the "Frames" panel.

that just executed  
the line to execute

<< First < Prev Next > Last >>

Done running (1 steps)



# Immutability in Python

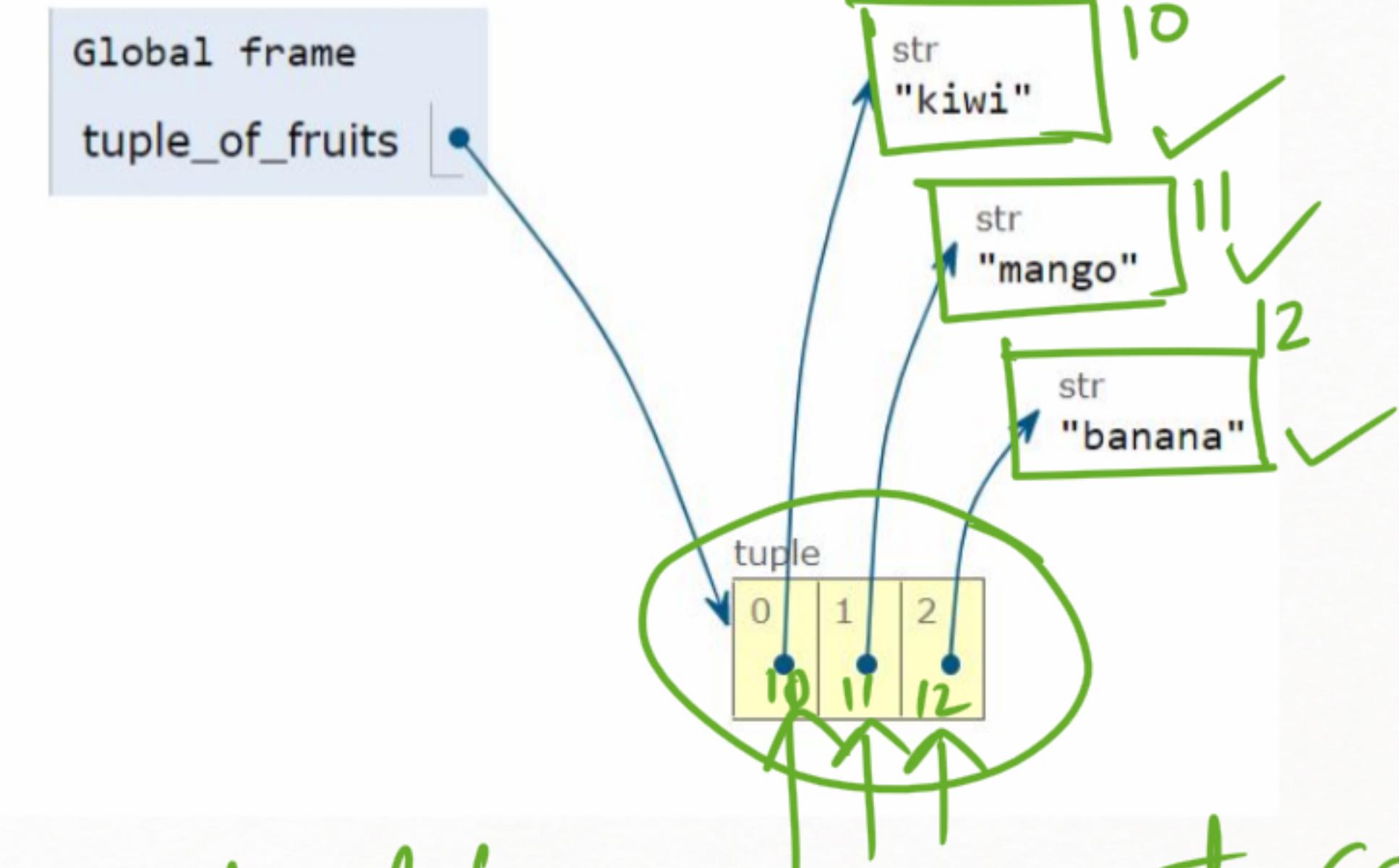
IDE in Python 3.6

```
tuple_of_fruits = ('kiwi', 'mango', 'banana')
```

(drag lower right corner to resize code editor)

Frames

Objects



Immutability = I can not convert/change  
10, 11, 12

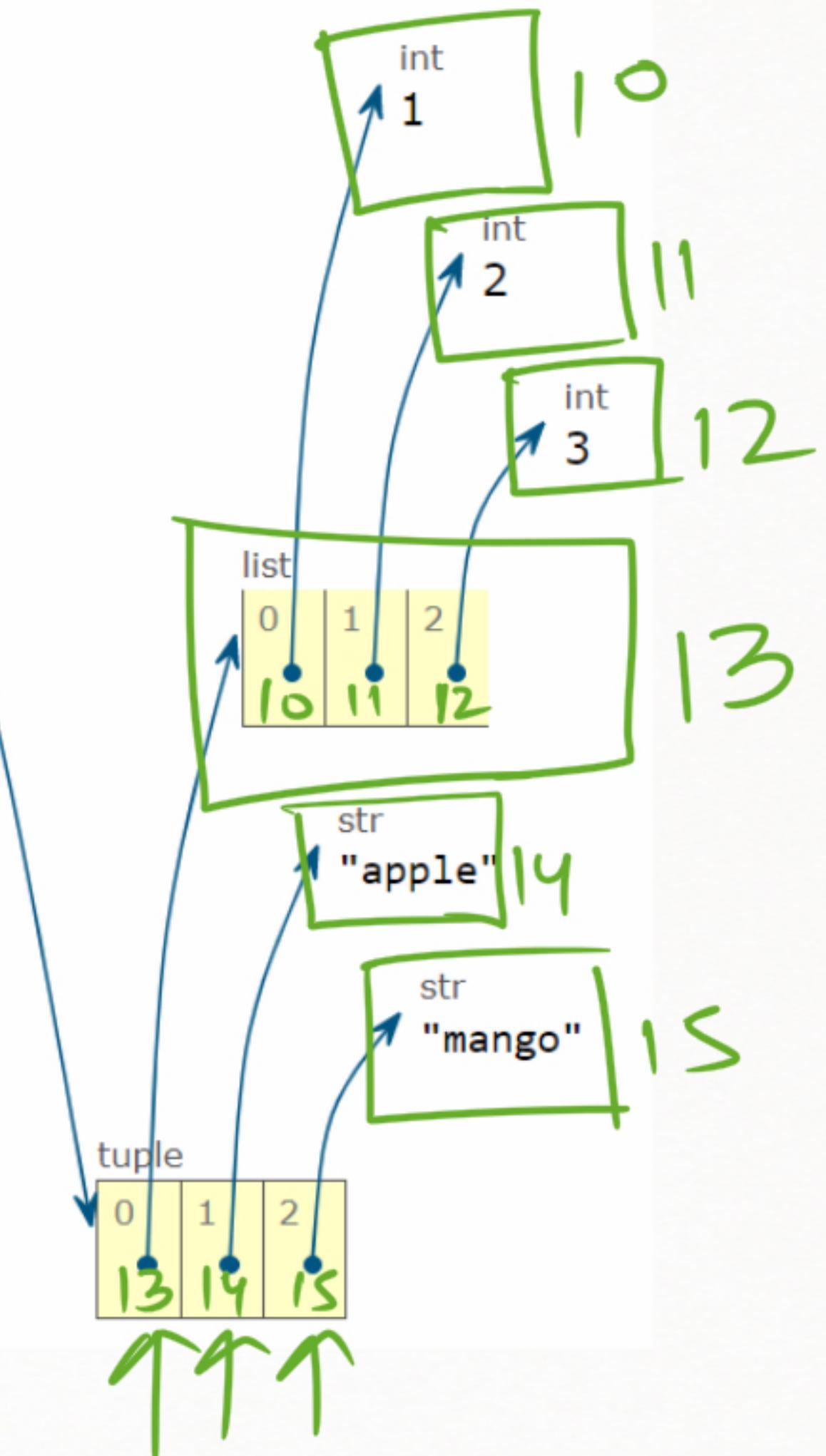
```
tuple_of_fruits = ([1,2,3], 'apple', 'mango')
```

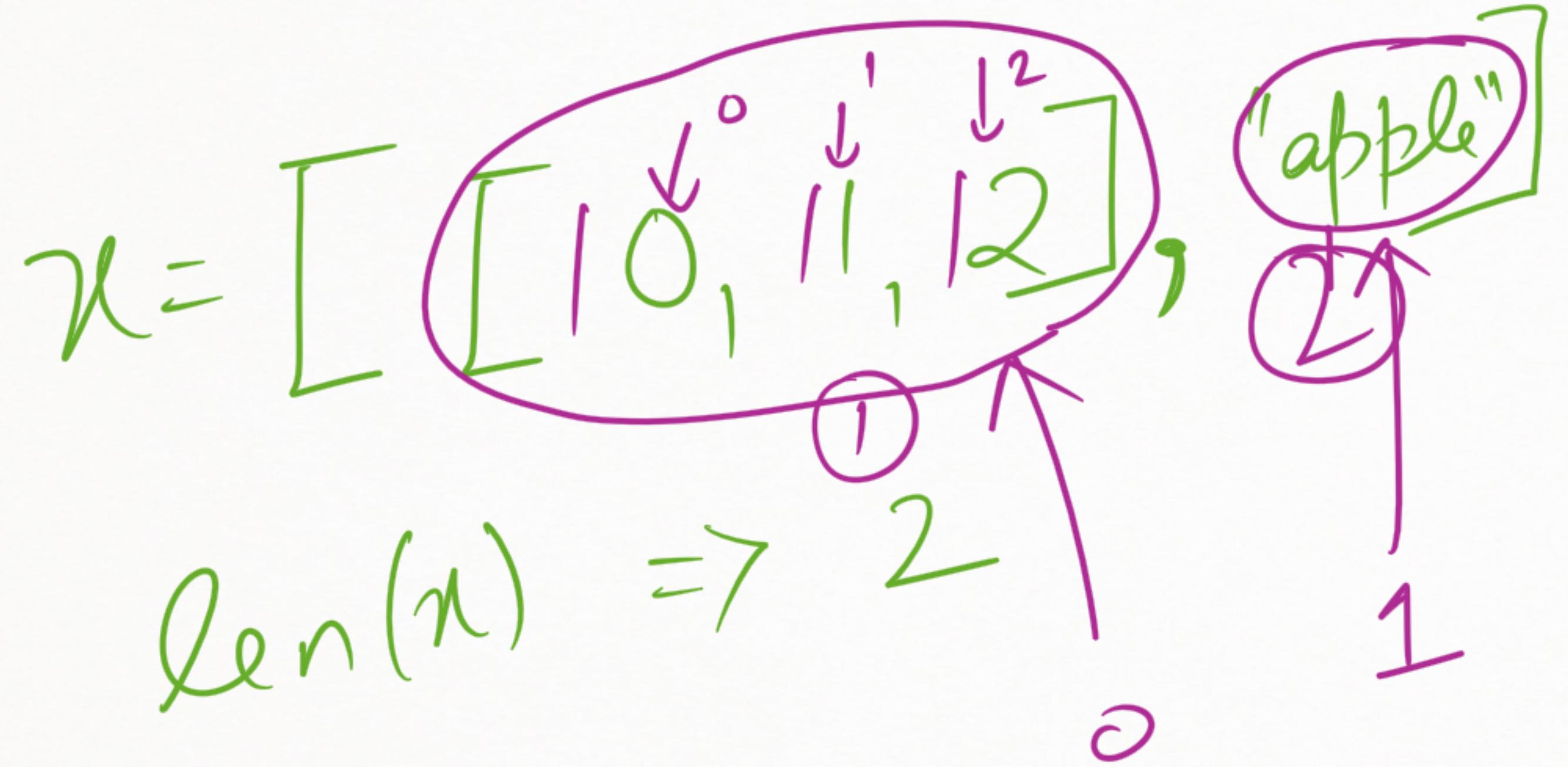
\* When I say immutability  
I basically mean, 13, 14, 15  
can not be changed.  
But 10, 11, 12 can be  
changed because they are  
inside a list not tuple.

Frames

Global frame  
tuple\_of\_fruits

Objects





$$x[0][0] = 10 \quad x[0][2] = 12$$

$$x[0][1] = 11 \quad \text{len}(x[0])$$

