

### Generator

one item at a time and generates item only when in demand

do you want this one?

Hi. I want orange, please

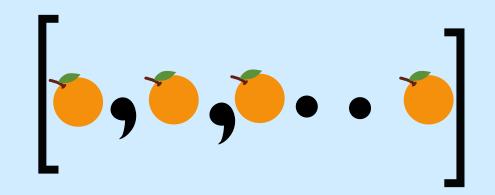
### Generator

```
def pick_one_orange(total_oranges):
   orange_index = 0
   while orange_index < total_oranges:
      yield orange_index
      orange_index</pre>
```



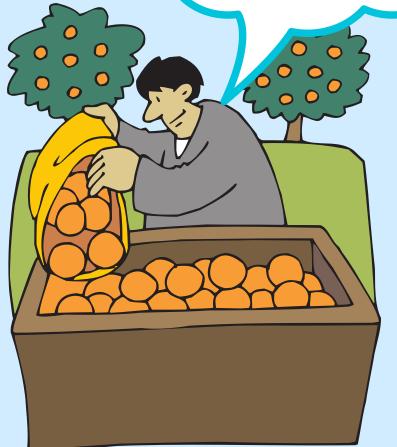
No, I want another one

## List



# python reserves memory for the whole list

this is all the oranges that I have , choose the orange that you



Hi. I want orange. please

## List

def pick\_all\_oranges(total\_oranges):
 oranges\_box = range(1,total\_oranges)
 return list(oranges\_box)



this is all the oranges
that I have, choose the
orange that you
want from the oranges
"list"

# Generator expressions are memory efficient than the lists.