

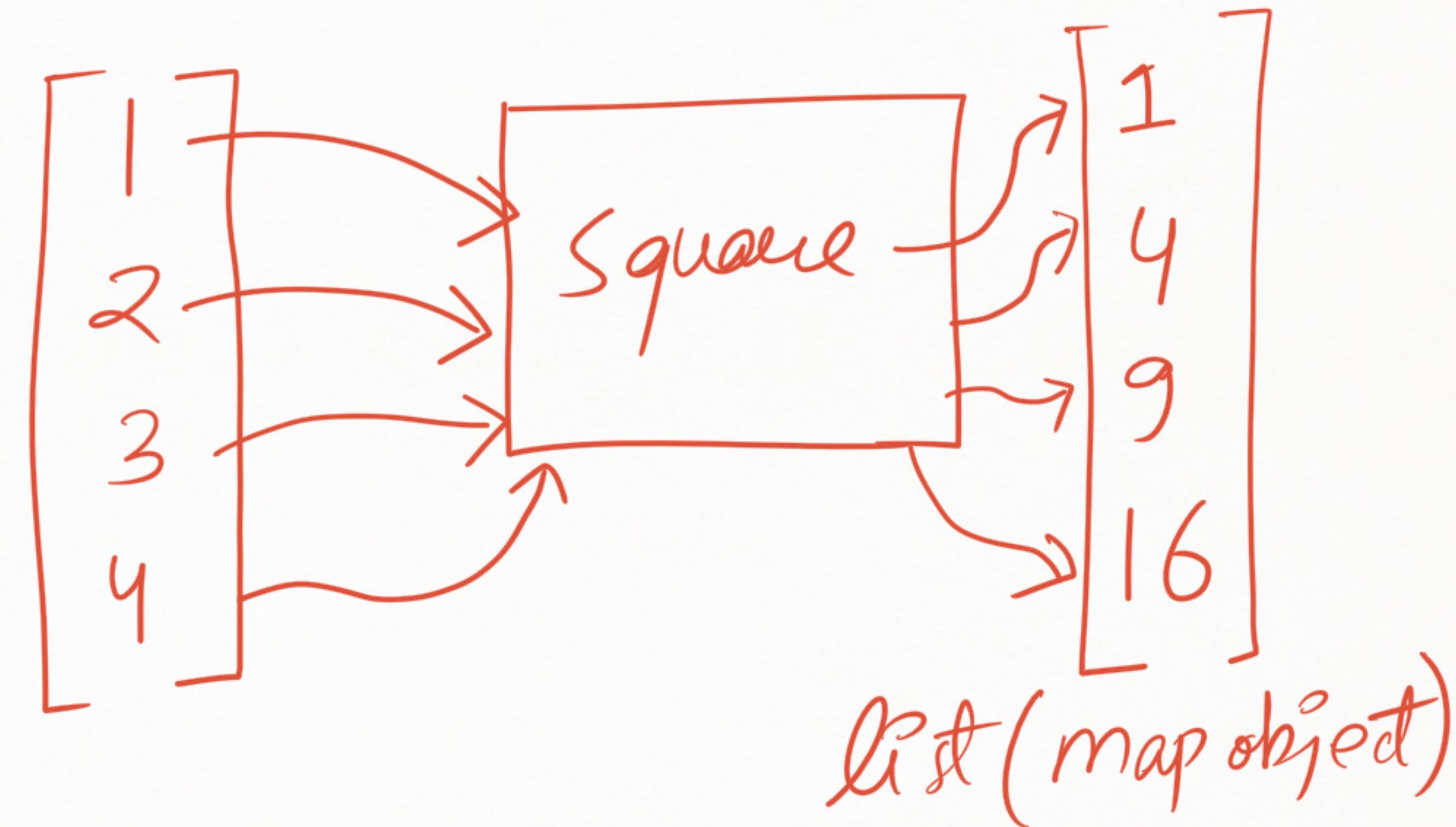
map

Syntax =>

`map(function_name, iterable_name)`

map

```
def sqr(n):  
    return n**2  
  
list(map(sqr,[1,2,3,4]))  
[1, 4, 9, 16]
```



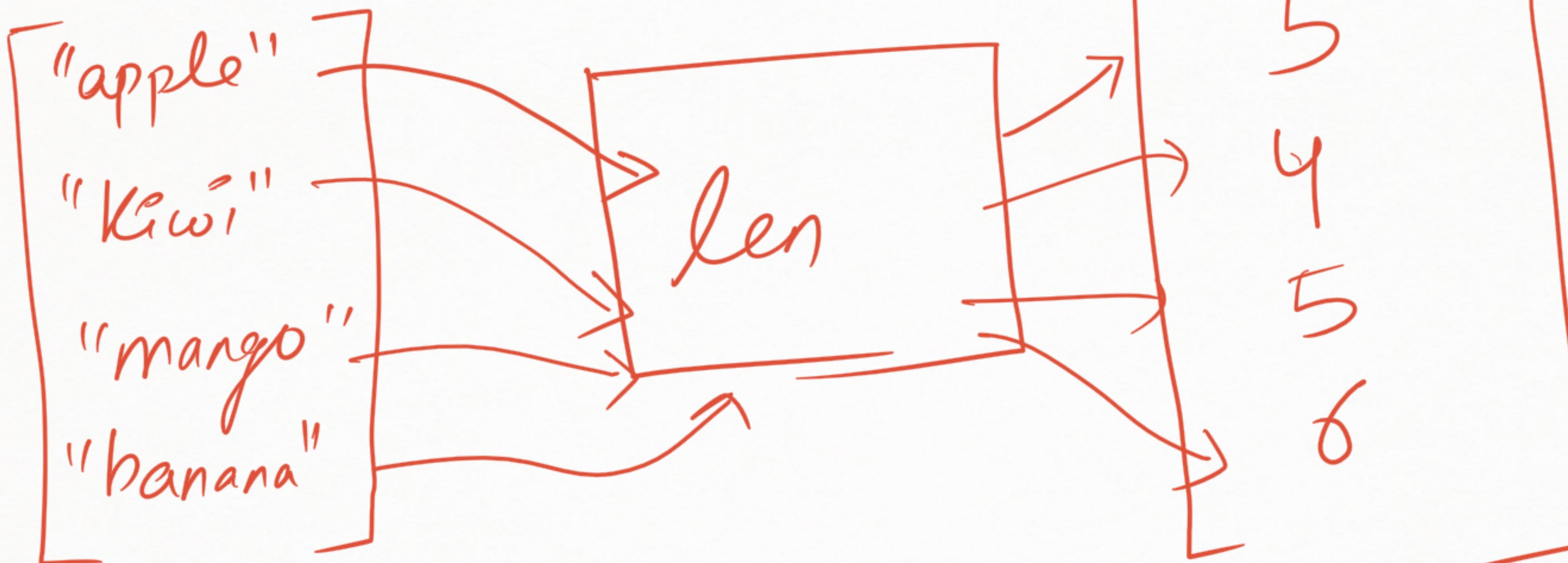
```
len('apple')
```

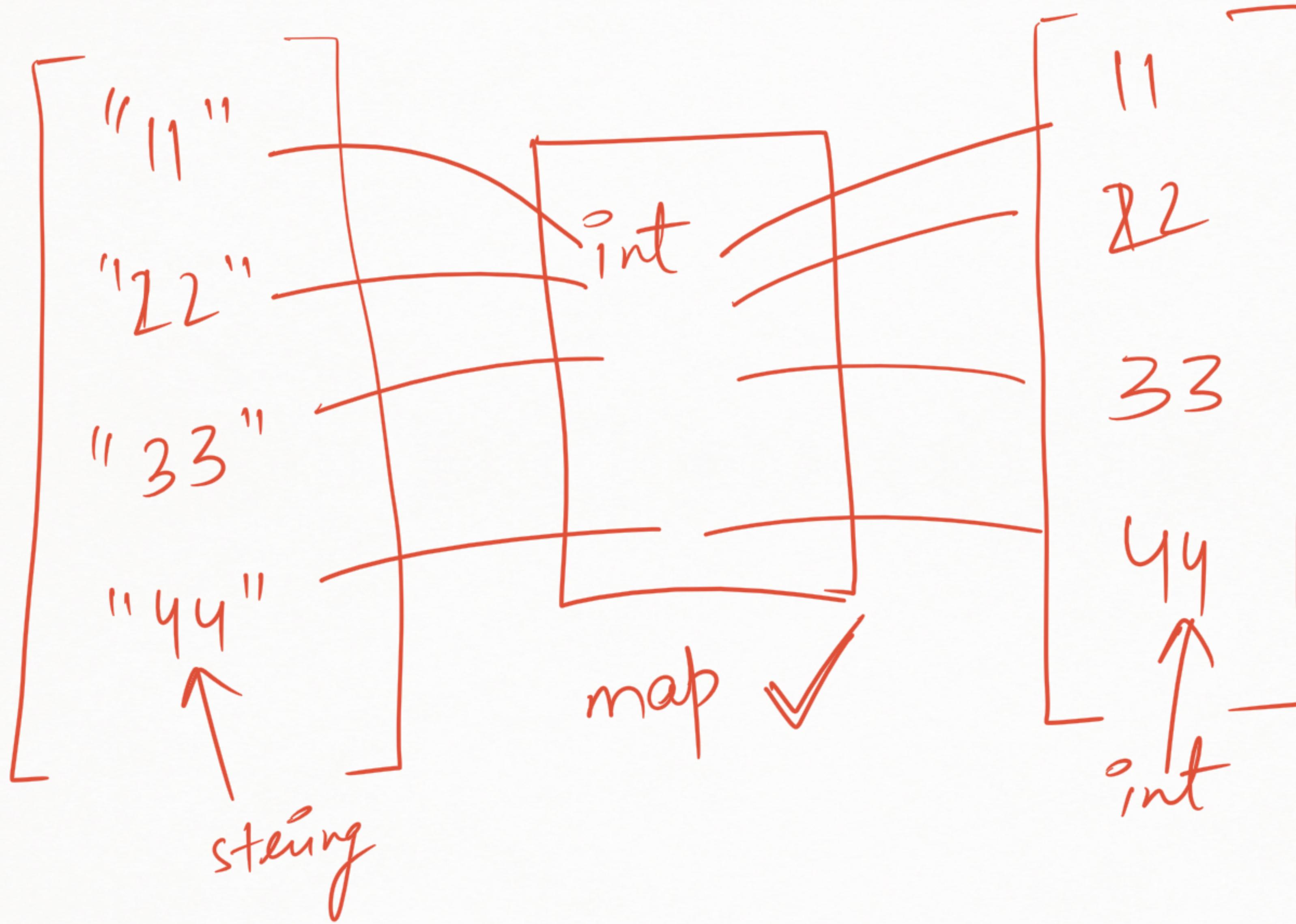
5

```
list_of_fruits = ['apple','kiwi','mango','banana']
```

```
list(map(len,list_of_fruits))
```

[5, 4, 5, 6]





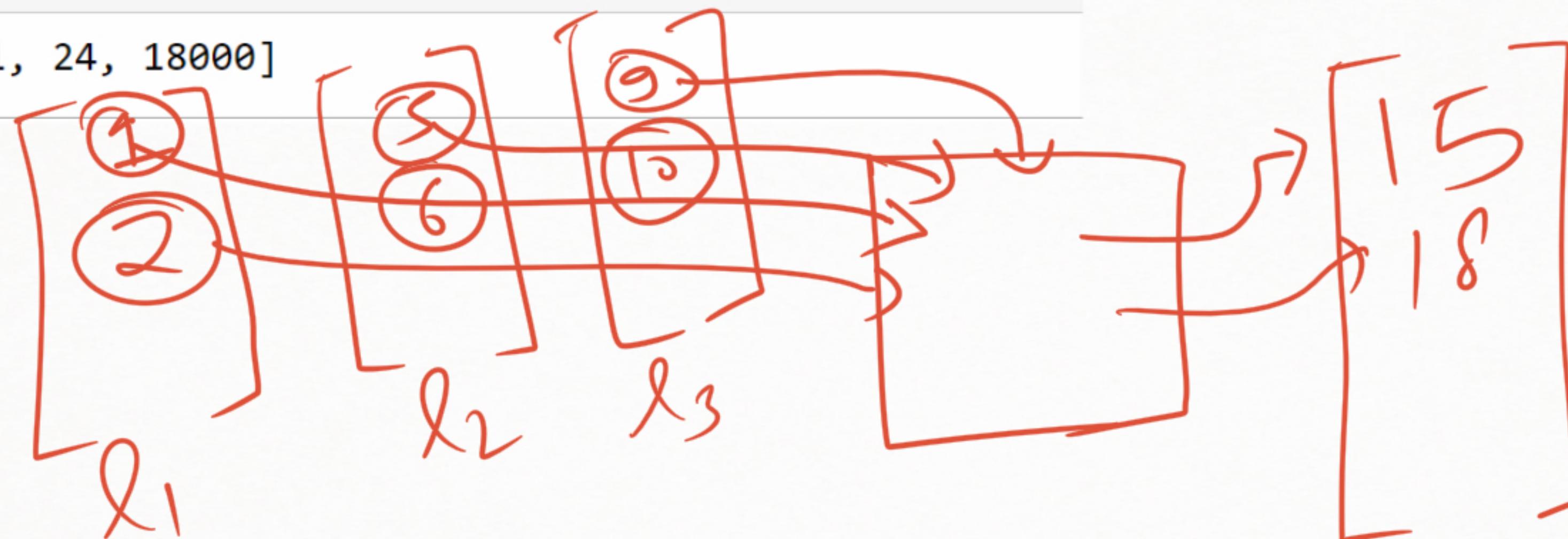
multiple arguments in a map function

```
l1 = [1,2,3,4,6000]
l2 = [5,6,7,8,8000]
l3 = [9,10,11,12,4000]

def add_utility(v1,v2,v3):
    return v1+v2+v3

print(list(map(add_utility,l1,l2,l3)))
```

[15, 18, 21, 24, 18000]



Filter

```
filter(fun_name, iterable_name)
```

it returns elements from the iterable which are corresponding to true in fun.

```
: def even(n):
    if n%2 == 0:
        return True
    return False ✓

filtered_obj = filter(even,[1,2,3,4,5,6,7,8,9])

final_list = list(filtered_obj)
print(final_list)

[2, 4, 6, 8]
```

