

[Comprehension]

- There are two forms:

(I) `output_expression, iteration, [conditional filtering]`, or

```
list1 = [i for i in range(1,10) if i%2==0]
prices1 = [i for i in [1.25, 9.45, 10.22, 3.78, 5.92, 1.16] if i<10]
```

(II) `output_expression with condition, iteration, [conditional filtering]`

```
prices2 = [i if i > 3.2 else 0 for i in [1.25, 9.45, 10.22, 3.78, 5.92, 1.16] ]
prices3 = [i if i > 3.2 else 0 for i in [1.25, 9.45, 10.22, 3.78, 5.92, 1.16] if i<10]
```

Testing:

```
print(prices1)
print(prices2)
print(prices3)
```

Output:

```
[1.25, 9.45, 3.78, 5.92, 1.16]
[0, 9.45, 10.22, 3.78, 5.92, 0]
[0, 9.45, 3.78, 5.92, 0]
```