

# Loops

May 8, 2023

```
[1]: odds = [1,3,5,7]
```

```
[2]: print(odds[0])
      print(odds[1])
      print(odds[2])
      print(odds[3])
```

```
1
3
5
7
```

```
[3]: odds = [1,3,5]
      print(odds[1])
      print(odds [2])
      print(odds[3])
```

```
3
5
```

```
↳
↳ -----
```

```
↳ IndexError                                Traceback (most recent call↳
↳ last)
```

```
    <ipython-input-3-a5210135f339> in <module>
      2 print(odds[1])
      3 print(odds [2])
----> 4 print(odds[3])
```

```
IndexError: list index out of range
```

```
[5]: odds = [1, 3, 5, 7, 9, 11, 13, 15, 17, 19]
```

```
for num in odds:
    print(num)
```

1  
3  
5  
7  
9  
11  
13  
15  
17  
19

```
[6]: length = 0
names = ['Curie', 'Darwin', 'Turing']
for value in names:
    length = length + 1
print('There are', length, 'names in the list.')
```

There are 3 names in the list.

```
[7]: name = "Rosalind"
for name in ['Curie', 'Darwin', 'Turing']:
    print(name)
print('after the loop, name is', name)
```

Curie  
Darwin  
Turing  
after the loop, name is Turing

```
[8]: print(len([0,1,2,3]))
```

4

```
[9]: name = ['Curie', 'Darwin', 'Turing']

print(len(name))
```

3

```
[ ]:
```