

For

```
In [6]: myList = [1,2,3,4]
        for item in myList:
            print(item)
```

```
1
2
3
4
```

Pass

```
In [7]: animalLookup = {
        'a': ['aardvark', 'antelope'],
        'b': ['bear'],
        'c': ['cat'],
        'd': ['dog'],
        }

        for letter, animals in animalLookup.items():
            pass
```

Continue

```
In [8]: for letter, animals in animalLookup.items():
        if len(animals) > 1:
            continue
        print(f'Only one animal! {animals[0]}')
```

```
Only one animal! bear
Only one animal! cat
Only one animal! dog
```

Break

```
In [9]: for letter, animals in animalLookup.items():
        if len(animals) > 1:
            print(f'Found {len(animals)} animals: {animals}')
            break
```

```
Found 2 animals: ['aardvark', 'antelope']
```

For / Else

```
In [10]: for number in range(2, 100):  
        for factor in range(2, int(number ** 0.5) + 1):  
            if number % factor == 0:  
                break  
        else:  
            print(f'{number} is prime!')
```

```
2 is prime!  
3 is prime!  
5 is prime!  
7 is prime!  
11 is prime!  
13 is prime!  
17 is prime!  
19 is prime!  
23 is prime!  
29 is prime!  
31 is prime!  
37 is prime!  
41 is prime!  
43 is prime!  
47 is prime!  
53 is prime!  
59 is prime!  
61 is prime!  
67 is prime!  
71 is prime!  
73 is prime!  
79 is prime!  
83 is prime!  
89 is prime!  
97 is prime!
```

```
In [11]: for number in range(2, 100):  
        found_factors = False  
        for factor in range(2, int(number ** 0.5) + 1):  
            if number % factor == 0:  
                found_factor = True  
        if not found_factors:  
            print(f'{number} is prime!')
```

```
2 is prime!  
3 is prime!  
4 is prime!  
5 is prime!  
6 is prime!  
7 is prime!  
8 is prime!  
9 is prime!  
10 is prime!  
11 is prime!  
12 is prime!  
13 is prime!  
14 is prime!  
15 is prime!  
16 is prime!  
17 is prime!  
18 is prime!  
19 is prime!  
20 is prime!  
21 is prime!  
22 is prime!  
23 is prime!  
24 is prime!  
25 is prime!  
26 is prime!  
27 is prime!  
28 is prime!  
29 is prime!  
30 is prime!  
31 is prime!  
32 is prime!  
33 is prime!  
34 is prime!  
35 is prime!  
36 is prime!  
37 is prime!  
38 is prime!  
39 is prime!  
40 is prime!  
41 is prime!  
42 is prime!  
43 is prime!  
44 is prime!  
45 is prime!  
46 is prime!  
47 is prime!  
48 is prime!  
49 is prime!  
50 is prime!  
51 is prime!  
52 is prime!  
53 is prime!  
54 is prime!  
55 is prime!  
56 is prime!  
57 is prime!  
58 is prime!
```

```
59 is prime!  
60 is prime!  
61 is prime!  
62 is prime!  
63 is prime!  
64 is prime!  
65 is prime!  
66 is prime!  
67 is prime!  
68 is prime!  
69 is prime!  
70 is prime!  
71 is prime!  
72 is prime!  
73 is prime!  
74 is prime!  
75 is prime!  
76 is prime!  
77 is prime!  
78 is prime!  
79 is prime!  
80 is prime!  
81 is prime!  
82 is prime!  
83 is prime!  
84 is prime!  
85 is prime!  
86 is prime!  
87 is prime!  
88 is prime!  
89 is prime!  
90 is prime!  
91 is prime!  
92 is prime!  
93 is prime!  
94 is prime!  
95 is prime!  
96 is prime!  
97 is prime!  
98 is prime!  
99 is prime!
```

In []: