

Aufgabe 7.1

```
L = [3, -7, 1, 5, 8]
print(L[2])
```

1

Aufgabe 7.2

```
L = [[5, 3, 2], [1, 7], [9, 4, 8]]
print(L[2][0])
```

9

Aufgabe 7.3

```
L = [9, 3, 4, 2, 7, 5]
print(L[-2])
```

7

Aufgabe 7.4

```
L = [9, 3, 4, 2, 7, 5]
print(len(L))
```

6

Aufgabe 7.5

```
L = [[5, 3, 2], [1, 7], [9, 4, 8]]
print(len(L))
```

3

Aufgabe 7.6

```
L = [8,1,4,9]
L[2] = 7
print(L)
```

[8, 1, 7, 9]

Aufgabe 7.7

```
L = [5, 2, 3]
L.append(7)
print(L)
```

[5, 2, 3, 7]

Aufgabe 7.8

```
L = [5, 9, 8]
L.insert(1, 2)
print(L)
```

[5, 2, 9, 8]

Aufgabe 7.9

```
L = [7, 9, 5, 8, 2]
L.pop()
print(L)
```

[7, 9, 5, 8]

Aufgabe 7.10

```
L = [7, 9, 5, 8, 2]
x = L.pop()
print(x)
```

2

Aufgabe 7.11

```
L = [7, 9, 5, 8, 2]
x = L.pop(2)
print(x)
```

5

Aufgabe 7.12

```
A = [9, 3, 2]
B = [4, 1]
print(A + B)
```

[9, 3, 2, 4, 1]

Aufgabe 7.13

```
print(3 * [7,2])
```

```
[7, 2, 7, 2, 7, 2]
```

Aufgabe 7.14

```
L = [7, 9, 5, 8, 2, 1, 4, 3]  
print(L[2:5])
```

```
[5, 8, 2]
```

Aufgabe 7.15

```
L = [7, 9, 5, 8, 2, 1, 4, 3]  
print(L[:3])
```

```
[7, 9, 5]
```

Aufgabe 7.16

```
L = [7, 9, 5, 8, 2, 1, 4, 3]  
print(L[6:])
```

```
[4, 3]
```

Aufgabe 7.17

```
A = [6, 7, 2]  
B = A  
B[1] = 9  
print(A)
```

```
[6, 9, 2]
```

Aufgabe 7.18

```
A = [6, 7, 2]  
B = A[:]  
B[1] = 9  
print(A)
```

```
[6, 7, 2]
```

Aufgabe 7.19

```
L = [6, 1, 2, 7, 9]
L.reverse()
print(L)
```

[9, 7, 2, 1, 6]

Aufgabe 7.20

```
L = [6, 1, 2, 7, 9]
L.sort()
print(L)
```

[1, 2, 6, 7, 9]

Aufgabe 7.21

```
L = [6, 4, 2, 8]
print(sum(L))
```

20

Aufgabe 7.22

```
[y, x, z] = [5, 3, 1]
print(x)
```

3

Aufgabe 7.23

```
L = [9, 2, 4, 1, 8]
s = 0
for e in L:
    s += e
print(s)
```

24

Aufgabe 7.24

```
L = [9, 2, 4, 1, 8]
s = 0
for i in range(0, len(L)):
    s += L[i]
print(s)
```

24

Aufgabe 7.25

```
T = (9, 3, 4, 2, 7, 5)
print(T[3])
```

2

Aufgabe 7.26

```
L = (9, 3, 4, 2, 7, 5)
L[3] = 8
print(L)
```

```
...
    L[3] = 8
    ~~~~
TypeError: 'tuple' object does not support item assignment
```

Aufgabe 7.27

```
L = (9, 3, 4, 2, 7, 5)
print(L[1:4])
```

(3, 4, 2)

Aufgabe 7.28

```
L = [a for a in range(2, 5)]
print(L)
```

[2, 3, 4]

Aufgabe 7.29

```
A = [1, 2, 3]
B = [2*x for x in A]
print(B)
```

[2, 4, 6]

Aufgabe 7.30

```
Z = [[0 for i in range(2)] for j in range(3)]
print(Z)
```

[[0, 0], [0, 0], [0, 0]]

Aufgabe 7.31

```
L = [0 if i % 2 == 0 else 1 for i in range(7)]
print(L)
```

[0, 1, 0, 1, 0, 1, 0]