

Graphentheorie

Übungen

Aufgabe 1

```
1  G = {  
2      'a': {'b', 'd'},  
3      'b': {'d', 'f', 'c'},  
4      'c': {'c', 'f'},  
5      'd': {},  
6      'f': {},  
7  }  
8  
9  print(G['a'])  
10 print(len(G['d']))  
11 print(sorted(G['b']))
```

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3      'b': {'d', 'f', 'c'},  
4      'c': {'c', 'f'},  
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6      'f': {},  
7  }  
8  
9  print(G['a'])  
10 print(len(G['d']))  
11 print(sorted(G['b']))
```

`{'b', 'd'}`

`0`

`['c', 'd', 'f']`

Aufgabe 2

```
1  G = {  
2      'd': {'b':5, 'c':4, 'a':2},  
3      'b': {'d':6, 'e':1},  
4      'a': {'c':9, 'd':8},  
5      'c': {'b':7}  
6  }  
7  
8  print(G['a']['c'])  
9  print(sorted(G['d'].keys()))  
10 print(sum(G['d'].values()))
```

Aufgabe 2

```
1 G = {  
2     'd': {'b':5, 'c':4, 'a':2},  
3     'b': {'d':6, 'e':1},  
4     'a': {'c':9, 'd':8},  
5     'c': {'b':7}  
6 }  
7  
8 print(G['a']['c'])  
9 print(sorted(G['d'].keys()))  
10 print(sum(G['d'].values()))
```

```
9  
['a', 'b', 'c']  
11
```