

## Count occurrence of unique values inside a string

```
In [32]: 1 var = "567432189010928736455647382910657483923456787654320045623487643575619180"
```

```
In [33]: 1  
2 count_num = {'1': 0, '2': 0, '3': 0, '4': 0, '5': 0, '6': 0, '7': 0, '8': 0, '9': 0, '0': 0}  
3 # count_num = {}  
4  
5 for i in var:  
6     if i in count_num.keys():  
7         count_num[i] = count_num[i]+1  
8
```

```
In [34]: 1 count_num
```

```
Out[34]: {'1': 8,  
'2': 13,  
'3': 15,  
'4': 16,  
'5': 16,  
'6': 16,  
'7': 16,  
'8': 14,  
'9': 12,  
'0': 9}
```

## List sorting

```
In [40]: 1 l = [[5,"asvg"],[6,"opty"],[1,"ghde"],[4,"kljh"],[2,"tsaw"]]
```

```
In [41]: 1 for i in range(len(l)):  
2     for j in range(i,len(l)):  
3         if l[i][0] > l[j][0]:  
4             l[i], l[j] = l[j], l[i]
```

```
In [42]: 1 1
```

```
Out[42]: [[1, 'ghde'], [2, 'tsaw'], [4, 'kljh'], [5, 'asvg'], [6, 'opty']]
```

## Slicing in python

```
In [25]: 1 st = 'asvg'
```

```
In [26]: 1 st[:2]
```

```
Out[26]: 'as'
```

```
In [27]: 1 st[-2:]
```

```
Out[27]: 'vg'
```

```
In [28]: 1 st[-4:-2]
```

```
Out[28]: 'as'
```

```
In [29]: 1 st[:-2]
```

```
Out[29]: 'as'
```

```
In [ ]: 1
```