In [4]:
```python
##Answer 1:

for i in range(-3,4):
    if i>=0:
     print (i)
```

```
0
1
2
3
```

In [7]:
```python
##Answer 2:

list1=[1,2,3,4,5,6,7,8,9]
for i in list1:
    if i%2==0:
        list1.remove(i)
print('New List is',list1)
```

```
New List is [1, 3, 5, 7, 9]
```

In [9]:
```python
##Answer 3:

list1=[1,2,[],4,5,[],7,8,[]]
print([i for i in list1 if i!=[]])
```

```
[1, 2, 4, 5, 7, 8]
```

In [10]:
```python
##Answer 4:

list1=[1,2,3,4,5,6,7,8,9]
new_list=list(list1)
print(list1)
print(new_list)
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9]
[1, 2, 3, 4, 5, 6, 7, 8, 9]
```

In [11]:
```python
##Answer 5:

def countX(lst, x):
    return lst.count(x)
lst = [8, 6, 8, 10, 8, 20, 10, 8, 8]
x = 8
print('{} has occurred {} times'.format(x, countX(lst, x)))
```

```
8 has occurred 5 times
```

In [12]:
```python
##Answer 6:

list1=[1,2,(),4,5,(),7,8,()]
print([i for i in list1 if i!=()])
```

```
[1, 2, 4, 5, 7, 8]
```

In [13]:
```python
##Answer 7:

list = [1,2,1,2,3,4,5,1,1,2,5,6,7,8,9,9]
new = []
for i in list:
    n = list.count(i)
    if n > 1:
        if new.count(i) == 0:
            new.append(i)
print(new)
```

[1, 2, 5, 9]

In [14]:
```python
##Answer 8:

list =[10,20,30]
l1=list[0]
l2=l1+list[1]
l3=l2+list[2]
print(l1,l2,l3)
```

10 30 60

In [21]:
```python
##Answer 9:

list1=[1,2,3,4,5]
sum(i for i in list1)
```

Out[21]: 15

In [22]:
```python
##Answer 10:

list1 = [1, 2, 3, 4, 5, 6, 7, 8, 9]
n = 4
final_list = [list1[i * n:(i + 1) * n] for i in range((len(list1) + n - 1) // n )]
print (final_list)
```

[[1, 2, 3, 4], [5, 6, 7, 8], [9]]

In [24]:
```python
##Answer 11:

def sorting_of_element(list1,list2):
    f_1 = {}
    final_list = []
    f_1 = {list1[i]: list2[i] for i in range(len(list2))}
    f_lst = {k: v for k, v in sorted(f_1.items(), key=lambda item: item[1])}
    for i in f_lst.keys():
        final_list.append(i)
    return final_list

list1 = ["a", "b", "c", "d", "e", "f", "g", "h", "i"]
list2 = [ 0,   1,   1,   0,   1,   2,   2,   0,   1]


sorting_of_element(list1,list2)
```

```
Out[24]: ['a', 'd', 'h', 'b', 'c', 'e', 'i', 'f', 'g']
```