In [19]:
```
def is_Sublist(main_list, sublist):
    if len(sublist) == 0:
        return True

    for i in range(len(main_list)):
        if main_list[i] == sublist[0] and main_list[i:i + len(sublist)] == sublist:
            return True
    return False

a = [2, 4, 3, 5, 7]
b = [4, 3]
c = [3, 7]

print(is_Sublist(a, b))
print(is_Sublist(a, c))
```

```
True
False
```

In [5]:
```
def find_common_list(list1, list2):
    set1= set(list1)
    set2= set(list2)
    common_items=set1.intersection(set2)
    return common_items

colors1=["Red", "Green", "Orange", "White"]
colors2=["Black", "Green", "White", "Pink"]

common_colors=find_common_list(colors1, colors2)
print(common_colors)
```

```
{'Green', 'White'}
```

In [12]:
```
def find_list_difference(list1, list2):
    set1= set(list1)
    set2= set(list2)
    difference=set1.difference(set2)
    return difference

list1= [1 , 2 , 3 , 4]
list2= [1, 2]

list_difference=find_list_difference(list1, list2)
print(list_difference)
```

```
{3, 4}
```

In [13]:
```
import itertools

def generate_permutations(lst):
    permutations=list(itertools.permutations(lst))
    return permutations

input_list=[1,2,3]

permutations=generate_permutations(input_list)
print(permutations)
```

```
[(1, 2, 3), (1, 3, 2), (2, 1, 3), (2, 3, 1), (3, 1, 2), (3, 2, 1)]
```

In [18]:
```
def remove_duplicates(lst):
    return list(set(lst))

input_list=[10,20,30,20,10,50,60,40,80,50,40]

unique_list= remove_duplicates(input_list)
print(unique_list)
```

```
[40, 10, 80, 50, 20, 60, 30]
```