In [1]:
```
def is_Sublist(l, s):
        sub_set = False
        if s == []:
                sub_set = True
        elif s == l:
                sub_set = True
        elif len(s) > len(l):
                sub_set = False

        else:
                for i in range(len(l)):
                        if l[i] == s[0]:
                                n = 1
                                while (n < len(s)) and (l[i+n] == s[n]):
                                        n += 1

                                if n == len(s):
                                        sub_set = True

        return sub_set

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 [2]:
```
color1 = "Red", "Green", "Orange", "White"
color2 = "Black", "Green", "White", "Pink"
print(set(color1) & set(color2))
```

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

In [3]:
```
list1 = [1,2,3,4]
list2=[1, 2]
diff_list1_list2 = list(set(list1) - set(list2))
diff_list2_list1 = list(set(list2) - set(list1))
total_diff = diff_list1_list2 + diff_list2_list1
print(total_diff)
```

```
[3, 4]
```

In [4]:
```
import itertools
print(list(itertools.permutations([1,2,3])))
```

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

In [5]:
```
def Remove(duplicate):
    final_list = []
    for num in duplicate:
        if num not in final_list:
            final_list.append(num)
    return final_list



duplicate = [10,20,30,20,10,50,60,40,80,50,40]
print(Remove(duplicate))
```

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

In [ ]: