

```
In [1]:
def is_Sublist(a, b):
    if not b:
        return True
    if not a:
        return False
    if a[:len(b)] == b:
        return True
    return is_Sublist(a[1:], b)
```

```
a = [2,4,3,5,7]
b = [4,3]
c = [3,7]
print(is_Sublist(a, b))
print(is_Sublist(a, c))
```

Output:

```
True
False
```

```
In [2]:
def find_common_items(list1, list2):
    set1 = set(list1)
    set2 = set(list2)
    common_items = set1.intersection(set2)
    return common_items
```

```
color1 = ["Red", "Green", "Orange", "White"]
color2 = ["Black", "Green", "White", "Pink"]
```

```
common_colors = find_common_items(color1, color2)
print(common_colors)
```

Output:

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

```
In [3]:
def get_list_difference(list1, list2):
    difference = [item for item in list1 if item not in list2]
    return difference
```

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

```
difference = get_list_difference(list1, list2)
print(difference)
```

Output:

```
[3, 4]
```

```
In [4]:
from itertools import permutations
```

```
def generate_permutations(lst):
    return list(permutations(lst))
```

```
input_list = [1, 2, 3]
permutations_list = generate_permutations(input_list)
print(permutations_list)
Output:
[(1, 2, 3), (1, 3, 2), (2, 1, 3), (2, 3, 1), (3, 1, 2), (3, 2, 1)]
In [5]:
def remove_duplicates(lst):
    return list(set(lst))

a = [10, 20, 30, 20, 10, 50, 60, 40, 80, 50, 40]
result = remove_duplicates(a)
print(result)
Output:
[40, 10, 80, 50, 20, 60, 30]
```