```
In [1]:  color1 = ["Red", "Green", "Orange", "White"]
         color2 = ["Black", "Green", "White", "Pink"]
```

```
In [2]:  seta = set(color1)
         setb = set(color2)

         print (seta)
         print (setb)
```

```
{'Green', 'White', 'Red', 'Orange'}
{'Green', 'White', 'Pink', 'Black'}
```

```
In [3]:  seta.intersection(setb)
```

```
Out[3]:  {'Green', 'White'}
```

```
In [ ]:
```

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

```
In [5]:  a = set(list1)
         b = set(list2)
```

```
In [6]:  print (a)
         print (b)
```

```
{1, 2, 3, 4}
{1, 2}
```

```
In [7]:  a.difference(b)
```

```
Out[7]:  {3, 4}
```

```
In [ ]:
```

```
In [8]:  from itertools import permutations
```

```
In [9]:  a = [1,2,3]
         b = list(permutations(a))

         print(b)
```

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

```
In [ ]:
```

```
In [10]:  a = [10,20,30,20,10,50,60,40,80,50,40]
          b = set(a)
```

```
In [11]:  print(b)
```

```
{40, 10, 80, 50, 20, 60, 30}
```

```
In [ ]:
```