## Frequencies of Array Elements

```
{10, 20, 20, 30, 10}

i = 0: print(10, 2)

i = 1: print(20, 2)

i = 2:

i = 3: print(30, 1)

i = 4:

Naive solution

Time: O(n²)

AUX Space: O(1)
```

```
Efficient Approach:

def countFreq(arr, n):

    hmp = dict()

    for i in range(n):

        if arr[i] in hmp.keys():

            hmp[arr[i]] += 1

        else:

        hmp[arr[i]] = 1

    for x in hmp:

        print(x, " ", hmp[x])

n = 5

arr = [10, 20, 20, 30, 10]

countFreq(arr, n)

Space = O(n)

Space = O(n)
```

```
def countFreq(arr, n):
       for i in range(n):
               flag = False
               for j in range(i):
                      if(arr[i] == arr[j]):
                              flag = True
                              break
               if(flag == True):
                      continue
               freq = 1
               for j in range(i + 1, n):
                      if(arr[i] == arr[j]):
                              freq = freq + 1
               print(arr[i], freq)
n = 5
arr = [10, 20, 20, 30, 10]
countFreq(arr, n)
```