In [2]:
```
## Function to find Second Largest number in a list

def secondlargest(li):
    unique = []
    for n in li:
        if n not in unique:
            unique.append(n)
    unique = sorted(unique,reverse=True)
    return unique[1]
secondlargest([7,8,9])

```

Out[2]: 8

In [6]:
```
## Function to find Fifth Largest number in a list

def Fifthlargest(li):
    unique = []
    for n in li:
        if n not in unique:
            unique.append(n)
    unique = sorted(unique,reverse=True)
    return unique[5]
Fifthlargest([1,2,2,3,4,5,6,7])

```

Out[6]: 2

In [7]:
```
## Function to find KLargest number in a list

def Klargest(li):
    unique = []
    for n in li:
        if n not in unique:
            unique.append(n)
    unique = sorted(unique,reverse=True)
    if len(unique)>k:
        return unique[k-1]
    else:
        return -1
k=int(input())
Klargest([1,2,3,4,5,6,7,8])

```

```
4
```

Out[7]: 5

In [8]:
```
## Function to find Ksmallest number in a list

def ksmallest(li):
    unique = []
    for n in li:
        if n not in unique:
            unique.append(n)
    unique = sorted(unique)
    if len(unique)>k:
        return unique[k-1]
    else:
        return -1
k=int(input())
ksmallest([1,2,3,4,5,6,7,8])

```

```
3
```

Out[8]:
```
3
```

In [14]:
```
##### Write a function to identify the elemen

def Highestfreq(li):
    unique = {}
    for n in li:
        if n in unique.keys():
            unique[n] +=1
        else:
            unique[n] = 1
    freq=unique.values()
    maxfreq = max(freq)
    maxfreqE=[]
    for item in unique.items():
        if item[1]==maxfreq:
            maxfreqE.append(item[0])
    return min(maxfreqE)
Highestfreq([1,2,3,1,1,2])
```

Out[14]:
```
1
```

In [18]:
```
def SecondHighestFreq(li):
    unique = {}
    for n in li:
        if n in unique.keys():
            unique[n] +=1
        else:
            unique[n] = 1
    print(unique)
    un=sorted(unique.values())
    print(un)
    unique2=[]
    for n in un:
        if n not in unique2:
            unique2.append(n)
    uv=unique2[-k]
    maxkeys=[]
    for item in unique.items():
        if item[1]==uv:
            maxkeys.append(item[0])
    return max(maxkeys)
k=int(input())
SecondHighestFreq([1,2,3,2,1,4,4,9])

```

```
2
{1: 2, 2: 2, 3: 1, 4: 2, 9: 1}
[1, 1, 2, 2, 2]
```

Out[18]: 9

In [21]:
```
def KHighestFreq(li,k):
    unique = {}
    for n in li:
        if n in unique.keys():
            unique[n] +=1
        else:
            unique[n] = 1
    uniquefreq=[]
    for value in unique.values():
        if value not in uniquefreq:
            uniquefreq.append(value)

    uniquefreq=sorted(uniquefreq,reverse=True)
    kfreq=uniquefreq[k-1]
    kfreqchar=[]
    for key in unique.items():
        if key[1]==kfreq:
            kfreqchar.append(key[0])
    return kfreqchar
KHighestFreq([9,8,7,6,5,2,3,4,9,6,7,7,6,7,6],3)
```

Out[21]: [8, 5, 2, 3, 4]

In [ ]:
```

```