

## Find the Majority Element that occurs more than $N/2$ times

**Problem Statement:** Given an array of  $N$  integers, write a program to return an element that occurs more than  $N/2$  times in the given array. You may consider that such an element always exists in the array.

```
def majorityElement(v: [int]) -> int:
```

```
    c=0
```

```
    c1=0
```

```
    ele=0
```

```
    for i in range(len(v)):
```

```
        if c==0:
```

```
            ele=v[i]
```

```
            c=1
```

```
        elif v[i]==ele:
```

```
            c+=1
```

```
        else:
```

```
            c-=1
```

```
    for i in range(len(v)):
```

```
        if v[i]==ele:
```

```
            c1+=1
```

```
    if c1>len(v)/2:
```

```
        return ele
```

```
    return -1
```