## Algorthim countElementOfSeq(seq,D)

## Algorthim countElementOfArray(arr,D)

```
For n of arr

Key:=D.findValue(n)

key:=D.findValue€

If(cnt===null) then

D.insertItem(n,1)

Else

key:=key+1;

D.insertItem(n,key)
```

## Algorthim findWinnesrFromDictionary(D)

```
Iter:=D.items()
Max:=0;
While(iter.hasNext()) then do
    Item:=Iter.nextObject()
If(item.value()>max) then
    Winner=[]
    Winners.push(item)
    Max=item.value()
Else if item.value===max) the
    Winners.push(item)
Return winners;
```

```
let max=0;
while(iterD.hasNext()){
    let item= iterD.nextObject()
        if(item.value()>max){
            winners.push(item)
            max=item.value()
        }else if(item.value()===max){
            winners.push(item)
        }
    }
return winners;
}
```

```
while(!seq.isLast(p)){
    p=seq.after(p)

PQ.insertItem(p.element(),p.element())
    }
}
```

## Algorthim insertArtrayIntoPQ(arr,PQ)

For id of arr PQ.insertItem(id,id)

```
Algorthim findWinnerPriortyQuea(PQ)
    Max := 0;
 Current:=PQ.removeMin()
 Cnt:=1
while !PQ.isEmpty() do
 next:=PQ.removeMin()
if(current===next)
  cnt:=cnt+1;
else if cnt>max
    winner.push((curr,cnt))
   max:=cnt;
 if cnt===max
    winner.push((curr,cnt))
cnt:=1;
current:=next;
return winner;
```

```
let cnt=0;
        let cur=PQ.removeMin()
        while(!PQ.isEmpty()){
         let next=PQ.removeMin()
         if(cur===next)
            cnt++;
        else{
            if(cnt>max){
                 max=cnt;
                 winners=[]
                 winners.push(new
Pair.Item(cur,cnt))
            }else if(cnt===max){
                 winners.push(new
Pair.Item(cur,cnt))
        cnt=1:
        cur=next
        if(cnt>max){
            max=cnt;
            winners=[]
            winners.push(new
Pair.Item(cur,cnt))
        }else if(cnt===max){
            winners.push(new
Pair.Item(cur,cnt))
        return winners;
```

