Algorthim countElement(seq,D)

Iter:=seq.element();

While(iter.hasNext()) do

Elem:=iter.nextObject()

cnt=D.findValue(elem)

if cnt===null then

D.insertItem(elem,1)

Else

D.insertItem(elem, cnt+1)

Algorthim countElement (seq, D)

Iter:=seq.element();

While(iter.hasNext()) do

Elem:=iter.nextObject()

cnt=D.findValue(elem)

if cnt===null then

val:=[1]

D.insertItem(elem,val)

Else

cnt[0]=cnt[0]+1;

Algorthim insertSeqtoPQ(seq, PQ)

Iter:=seq.element()

While iter.hasNext() do

Elem:=iter.nextObject()

PQ.insertItem(elem, elem)

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;

Algorthim blackHeight(T)

If(T.isExternal(p)) return 1;

Bhr=blachHieght(T.leftChild(p))

Bhl=blackHieght(T.rightChiled(p))

If(T.isBlack(p)&&!T.isRoot(p))

Return Bhr+1;

Else

Return Bhr;