Name Kevin Riley COSC 310 Lab Exercise

1. Declare single linked list node target

target = head

while( target.next != tail)

target=target.next

return target

1. Declare a double link list node dn

Declare an integer count

While( dn.next ! = tail)

{

dn.next=dn;

count++;

}

count++

return count/2;

the runtime is On

2. if that is not allowed

Declare 2 double link list nodes front, back

front=head;

back = tail;

while( front.next != back.prev&& front!= back. Prev)

{

Front= front.next

Back = back.prev

}

Return front.next;

Runtime On

1. final int NUMBER\_OF\_PLAYERS = number of players

boolean[][] meetings = new boolean[NUMBER\_OF\_PLAYERS][ NUMBER\_OF\_PLAYERS]

int meets=0;

public Boolean meet(player I player j)

if (i!=j)

meets++;

meetings[i][j] = true;

if( meets>NUMBER\_OF\_PLAYERS)

call the winning method with meetings

by calling the winning method

public boolean winning(boolean[][] player)

for( int I =0 ;I < NUMBER\_OF\_PLAYERS; ++I)

{

for(int j = 0; j < NUMBER\_OF\_PLAYERS;++j)

{

If(i==j&& !meetings[i][j])

{

Return false;

}

}

Runtime = O(n3)

1. int l1=0,Int l2=0;

for(int k = 0; k< A.size ; k++)

{

If( l1<A[k])

{

l1= A[k];

}

if(l2<A[k] && l1!=A[k])

{

l2= A[k];

}

}

3.