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ONLINE BET

DIVIDE AND CONQUIRE

```
import java.util.*;

public class p1{

    static Scanner in=new Scanner(System.in);

    static ArrayList<Integer> sVal, count;

    private static void calculate(int[] point, ArrayList<Integer> ar) {

        for(int i=0;i<point.length;i++){

            if(point[i]<=ar.get(1)&&point[i]>=ar.get(0)){

                int temp=count.get(i);

                count.set(i, ++temp);

                //System.out.println("test"+temp);

            }

        }

    }

    private static int[] enterValues(int[] a, int p) {

        for(int i=0;i<p;i++)

            a[i]=in.nextInt();

        return a;

    }

    public static void main(String[] args) {

        System.out.println("No.of Segments: ");
```

```

int s=in.nextInt();

System.out.println("No.of Points: ");

int p=in.nextInt();

//input values in the array of segment and point

//int[] segment=new int[s];

int[] point=new int[p];

//segment=enterValues(segment,s);

System.out.println("Enter the values in point array: ");

point=enterValues(point,p);

//initialising the temp count array--output stored here

count=new ArrayList<Integer>();

for(int i=0;i<p;i++){

count.add(0);

}

sVal=new ArrayList<Integer>(s);

for(int i=0;i<s;i++)

{

System.out.println("Enter values for the segment: ");

for(int j=0;j<2;j++)

sVal.add(in.nextInt());

calculate(point,sVal);

sVal.clear();

}

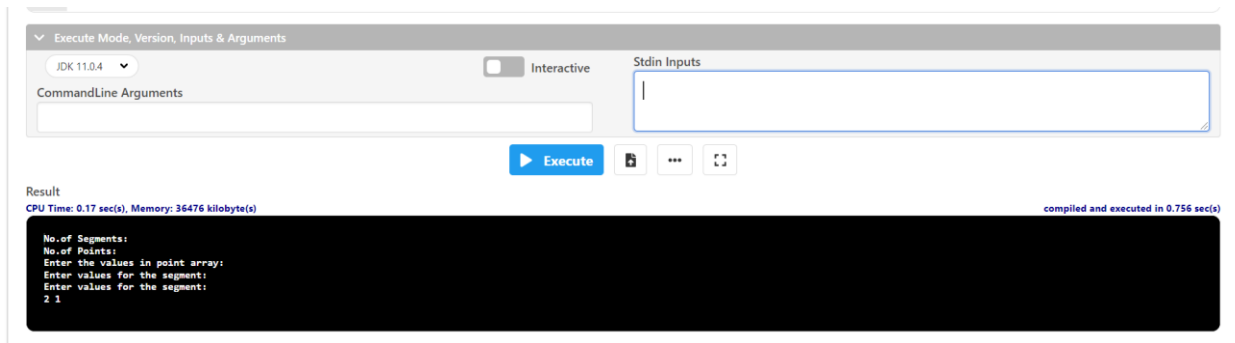
for(int i=0;i<p;i++)

System.out.print(count.get(i)+" ");

```

}

}



Considering the no. of segments to be s ; In the for loop in main-- the computational time would be $O(2s)$ which is equivalent to $O(s)$