Count of a element in a sorted array

public class MyClass {

public static void main(String args[])

{

int[] arr={2,3,10,10,10,11,20,22};

System.out.println();

}

public class MyClass {

public static void main(String args[])

{

int[] arr={2,3,10,10,10,11,20,22};

int x=Firstoccurence(arr,10);

int y=Lastoccurence(arr,10);

int count=y-x+1;

System.out.println(count);

}

public static int Lastoccurence(int[] arr,int val)

{

int result=0;

int start=0;

int end=arr.length-1;

while(start<=end)

{

int mid=start + (end-start)/2;

if(arr[mid]==val)

{

result=mid;

start=mid+1;

}

if(arr[mid]<val)

{

start=mid+1;

}

else if(val>arr[mid])

{

end=mid-1;

}

}

return result;

}

public static int Firstoccurence(int[] arr,int val)

{

int result=0;

int start=0;

int end=arr.length-1;

while(start<=end)

{

int mid=start + (end-start)/2;

if(arr[mid]==val)

{

result=mid;

end=mid-1;

}

if(arr[mid]<val)

{

start=mid+1;

}

else if(val>arr[mid])

{

end=mid-1;

}

}

return result;

}

}}