

TWO POINTERS

```
import java.io.*;
import java.util.Arrays;
public class Squares_of_sorted_Array
{
    public int[] square_array(int num[])
    {
        for(int i=0;i<num.length;i++)
        {
            num[i]=num[i]*num[i];
        }
        return num;
    }
    public int[] sort_array(int num[])
    {
        int result[]=new int[num.length];
        int head=0;
        int tail=num.length-1;
        for(int pos=num.length-1;pos>=0;pos--)
        {
            if (num[head]>num[tail])
            {
                result[pos]=num[head];
                head++;
            }
            else
            {
                result[pos]=num[tail];
                tail--;
            }
        }
    }
}
```

```
        }
    }
    return result;
}
public static void main(String[] args)
{
    Two_Pointer tsk=new Two_Pointer();
    int num[]={-4,-1,0,3,10};
    System.out.println(Arrays.toString(tsk.square_array(num)));
    System.out.println(Arrays.toString(tsk.sort_array(num)));
}

}
```