https://course.acciojob.com/idle?question=0049558a-836e-4bef-b820-7e8810b345a5

//problem

- EASY
- Max Score: 30 Points

Sorting Problem 3

Given an integer array arr[] in unsorted order. Using Bubble Sort Technique, return an array of the squares of each number sorted in non-decreasing order.

Explanation: After squaring, the array becomes [16,1,0,9,100]. After sorting, it becomes [0,1,9,16,100].

Input Format

n (size of the array) arr[0] arr[1] arr[2] … arr[n-1]

Output Format

arr[0] arr[1] arr[2] … arr[n-1]

Example 1

Input

```
5
-4 -1 0 3 10
```

Output

```
0 1 9 16 100
```

Topic Tags

- **Sorting**

My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
	public static void main (String[] args) throws
java.lang.Exception
	{
		//your code here
		Scanner s=new Scanner(System.in);
		int n=s.nextInt();
		int arr[]=new int[n];
		for(int i=0;i<n;i++)
			{
```

```
                int num=s.nextInt();
                arr[i]=num*num;
            }
        for(int i=n-1;i>0;i--)
            {
                for(int j=0;j<i;j++)
                    {
                        if(arr[j]>arr[j+1])
                        {
                            int t=arr[j];
                            arr[j]=arr[j+1];
                            arr[j+1]=t;
                        }
                    }
            }
        for(int i=0;i<n;i++)
        System.out.print(arr[i]+" ");
    }
}
```