https://course.acciojob.com/idle?question=47a05a58-8c95-4ace-a7fc-bca89a56fb34

- EASY
- Max Score: 30 Points
-

Sorting Problem 1

Given is an unsorted array of size n. Use the selection sort algorithm to sort the given unsorted array.

Input Format

First line contains n, size of the array.

Second line contains n space separated unsorted array elements.

Output Format

Line containing n space separated sorted elements.

Example 1

Input

```
5
4 1 3 9 7
```

Output

```
1 3 4 7 9
```

Explanation

Selection sort would move smaller element 1 3 7 forward to give the sorted array.

Example 2

Input

```
3
1 7 5
```

Output

```
1 5 7
```

Explanation

Selection sort would move 5 in front to give 1 5 7 as the sorted array.

Constraints

1 <= n <= 10^3

1 <= arr[i] <= 10^3

Topic Tags

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