

<https://course.acciojob.com/idle?question=90ddafa3-7d35-44c4-be3d-82da7034485c>

● EASY

● Max Score: 30 Points

●

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Implementing Selection Sort

Given an array `arr` of size `n`, containing positive integers. You need to sort the elements of array using the Selection Sort algorithm.

Input Format

First line contains an integer `n` which is the size of array `arr`

Second line contains `n` space separated integers of `arr`

Output Format

Return the sorted array

Example 1

Input

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

Output

```
1 3 4 7 9
```

Explanation

The array after performing Selection sort: 1 3 4 7 9.

Example 2

Input

```
10
10 9 8 7 6 5 4 3 2 1
```

Output

```
1 2 3 4 5 6 7 8 9 10
```

Constraints

$1 \leq n \leq 10^4$

$-10^6 \leq A[i] \leq 10^6$

Topic Tags

- **Sortin**

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-1;i++)
    {
        if(arr[i]>arr[i+1])
            for(int j=i+1;j>0;j--)
            {
                if(arr[j-1]>arr[j])
                {
                    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]+" ");

}
}

```