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- EASY
- Max Score: 30 Points

AS Sorting 3

Write a program to print all the inversions in an array `arr[]` of size `N`. Print all of the inversion pairs `{ (x, y) }` as shown below.

Note: Two numbers of array `arr` at index `i` and `j` are said to be inverted pair if `arr[i]>arr[j]` and `i<j`.

Input Format

The first line contains integer `N` denoting the number of elements.

The Second line contains `N` space seprated integers denoting the elements of the array.

Output Format

Print all the inversion pairs, each in a new line in the format `(x,y)`.

Example 1

Input

```
4
8 4 2 1
```

Output

```
(8, 4)
(8, 2)
(8, 1)
(4, 2)
(4, 1)
(2, 1)
```

Explanation

8 is greater than 4,2,1 and index is less than their indexes. Similary 4 is greater than 2 and 1 but has smaller index. similar 2 is greater than 1 but has smaller index than 1.

Example 2

Input

```
3
 5 7 2
```

Output

```
(5, 2)
(7, 2)
```

Explanation

both 5 and 7 is greater than 2 and has smaller index. No other pairs satisfy the conditions.

Constraints

```
0 <= arr.length <= 10^4

-10^9 <= arr[i] <= 10^9
```

Topic Tags

- Sorting
- Arrays

My code

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

class Solution {
static void ASsort3(int arr[], int n)
{
    // Write your code and print here
     for(int i=0;i<n;i++)
                {
                        for(int j=i+1;j<n;j++)
                                {
                                        if(arr[i]>arr[j])
                                        {
                                                System.out.println("("+arr[i]+",
"+arr[j]+")");
                                        }
                                }
                }
}

}

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n= sc.nextInt();
        int array[] = new int[n];

        for(int i=0; i<n; i++){
```

```
            array[i]= sc.nextInt();
        }

        Solution Obj = new Solution();
        Obj.ASsort3(array,n);
    }
}
```