#include<bits/stdc++.h>

using namespace std;

void bubblesort(int arr[], int n){

for(int i=0;i<n-1;i++){

for(int j=0;j<n-i-1;j++){

cout<<"Comparing "<<arr[j+1]<<" and "<<arr[j]<<endl;

if(arr[j]>arr[j+1]){

cout<<"Swapping "<<arr[j+1]<<" and "<<arr[j]<<endl;

swap(arr[j],arr[j+1]);

}

}

}

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

cout<<arr[i]<<endl;

}

}

int main(){

int n;

cin>>n;

int arr[n];

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

cin>>arr[i];

}

bubblesort(arr,n);

}