**Sort a given set of N integer elements using Insertion Sort technique and compute its time taken.**

#include <bits/stdc++.h>

using namespace std;

void insertionSort(int arr[], int n)

{

int i, key, j;

for (i = 1; i < n; i++)

{

key = arr[i];

j = i - 1;

while (j >= 0 && arr[j] > key)

{

arr[j + 1] = arr[j];

j = j - 1;

}

arr[j + 1] = key;

}

}

void printArray(int arr[], int n)

{

int i;

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

cout << arr[i] << " ";

cout << endl;

}

int main()

{

int arr[10], n;

cout << "Enter size of array;\n";

cin >> n;

cout << "Enter the array elements:\n";

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

{

cin >> arr[i];

}

insertionSort(arr, n);

printArray(arr, n);

return 0;

}

