#include <stdio.h>

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--;

}

arr[j + 1] = key;

}

}

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

printf("Sorted array: ");

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

printf("%d ", arr[i]);

printf("\n");

}

int main() {

int arr[100], n;

printf("Enter number of elements: ");

scanf("%d", &n);

printf("Enter %d elements:\n", n);

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

scanf("%d", &arr[i]);

insertionSort(arr, n);

display(arr, n);

return 0;

}

