#include <stdio.h>

// Function to print an array

void printArray(int array[], int size) {

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

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

}

printf("\n");

}

void insertionSort(int array[], int size) {

for (int step = 1; step < size; step++) {

int key = array[step];

int j = step - 1;

while (key < array[j] && j >= 0) {

array[j + 1] = array[j];

--j;

}

array[j + 1] = key;

}

}

int main() {

int size;

// Get the size of the array from the user

printf("Enter the size of the array: ");

scanf("%d", &size);

int data[size];

// Get array elements from the user

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

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

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

}

insertionSort(data, size);

printf("Sorted array in ascending order:\n");

printArray(data, size);

return 0;

}