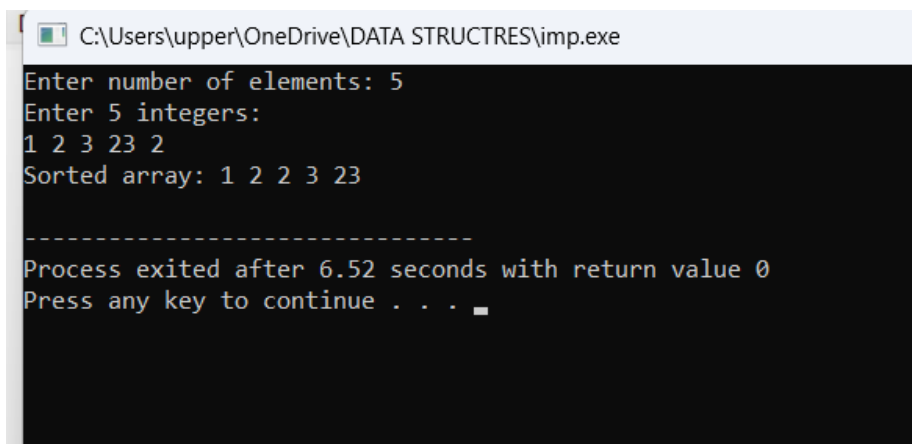


```

#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 printArray(int arr[], int n) {
    printf("Sorted array: ");
    for (int i = 0; i < n; i++)
        printf("%d ", arr[i]);
    printf("\n");
}
int main() {
    int arr[50], n, i;

    printf("Enter number of elements: ");
    scanf("%d", &n);
    printf("Enter %d integers:\n", n);
    for (i = 0; i < n; i++)
        scanf("%d", &arr[i]);
    insertionSort(arr, n);
    printArray(arr, n);
    return 0;
}

```



```

C:\Users\upper\OneDrive\DATA STRUCTRES\imp.exe
Enter number of elements: 5
Enter 5 integers:
1 2 3 23 2
Sorted array: 1 2 2 3 23

-----
Process exited after 6.52 seconds with return value 0
Press any key to continue . . .

```