

```

/* Insertion sort ascending order */
#include <stdio.h>

int main()
{
    int n, array[1000], c, d, t, flag = 0;

    printf("Enter number of elements\n");
    scanf("%d", &n);

    printf("Enter %d integers\n", n);

    for (c = 0; c < n; c++)
        scanf("%d", &array[c]);

    for (c = 1 ; c <= n - 1; c++) {
        t = array[c];

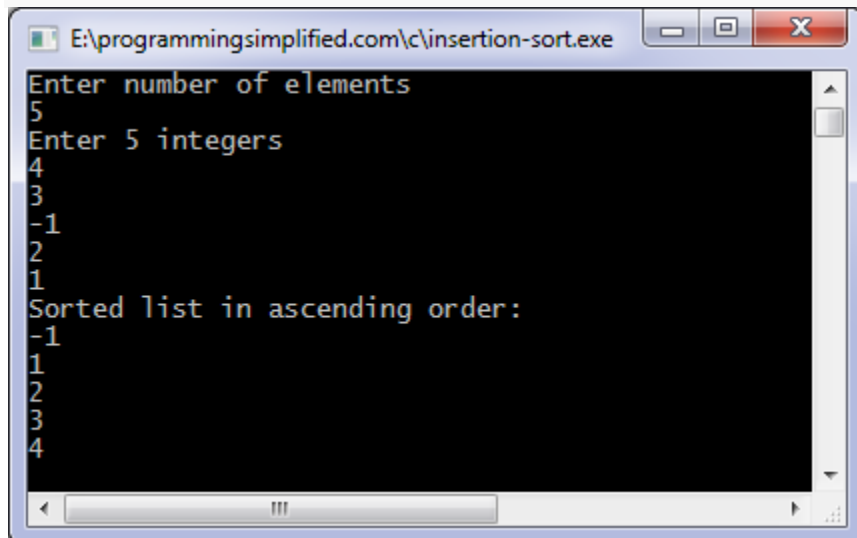
        for (d = c - 1 ; d >= 0; d--) {
            if (array[d] > t) {
                array[d+1] = array[d];
                flag = 1;
            }
            else
                break;
        }
        if (flag)
            array[d+1] = t;
    }

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

    for (c = 0; c <= n - 1; c++) {
        printf("%d\n", array[c]);
    }

    return 0;
}

```



```

E:\programmingsimplified.com\c\insertion-sort.exe
Enter number of elements
5
Enter 5 integers
4
3
-1
2
1
Sorted list in ascending order:
-1
1
2
3
4

```