**insertion sort in c**

Insertion sort in c: c program for insertion sort to sort numbers. This code implements insertion sort algorithm to arrange numbers of an array in ascending order. With a little modification it will arrange numbers in descending order.

**Insertion sort algorithm implementation in c**

/\* insertion sort ascending order \*/

#include <stdio.h>

int main()

{

int n, array[1000], c, d, t;

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++) {

d = c;

while ( d > 0 && array[d] < array[d-1]) {

t = array[d];

array[d] = array[d-1];

array[d-1] = t;

d--;

}

}

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

for (c = 0; c <= n - 1; c++) {

printf("%d\n", array[c]);

}

return 0;

}

**Compiler used:**

GCC

**Output of program:**

