```c
//Created By Ritwik Chandra Pandey
//On 5th Nov' 2021
//Bubble Sort


#include<stdio.h>
void main() {
        int a[20], i, n, j, temp;
        printf("Enter value of n : ");
        scanf("%d", &n);
        for (i=0;i<n;i++) {
                printf("Enter element for a[%d] : ", i);
                scanf("%d",&a[i]);
        }
        printf("Before sorting the elements in the array are\n");
        for (i=0;i<n;i++) {
                printf("Value of a[%d] = %d\n",i,a[i]);
        }
        for (i=0;i<n-1;i++) {
                for (j=0;j<n-i-1;j++) {
                        if (a[j]>a[j+1]) {
                                temp = a[j];
                                a[j] = a[j+1];
                                a[j+1] = temp;
                        }
                }
        }
        printf("After sorting the elements in the array are\n");
        for (i=0;i<n;i++) {
                printf("Value of a[%d] = %d\n",i,a[i]);
        }
}
```