```c
/*Implement bubble sort to sort the elements of any user entered array in ascending order. */

#include <stdio.h>
void bubblesort(int[], int);
main()
{
    int a[20], n, i;
    printf("Enter the number of elements in the array");
    scanf("%d", &n);
    printf("Enter the array elements");
    for (i = 0; i < n; i++)
    {
        scanf("%d\t", &a[i]);
    }
    printf("The unsorted array is ", a[i]);
}

void bubblesort(int a[], int n)
{
    int i, j, temp;
    for (i = 0; i < n - 1; i++)
    {
        for (j = 0; j < n - 1 - i; i++)
        {
            if (a[j] > a[j + 1])
            {
                temp = a[j];
                a[j] = a[j + 1];
                a[j + 1] = temp;
            }
        }
    }
    printf("Sorted list in ascending order:\n");

    for (i = 0; i < n; i++)
        printf("%d\n", a[i]);
    return 0;
}
```

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