c program is sort an array using bubble sort

#include <stdio.h>

void swap(int \*a, int \*b) {

int temp = \*a;

\*a = \*b;

\*b = temp;

}

void bubbleSort(int arr[], int n) {

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

for (int j = 0; j < n - i - 1; ++j) {

if (arr[j] > arr[j + 1]) {

swap(&arr[j], &arr[j + 1]);

}

}

}

}

int main() {

int n;

printf("Enter the size of the array: ");

scanf("%d", &n);

if (n <= 0) {

printf("Error: Please enter a positive size for the array.\n");

return 1;

}

int arr[n];

printf("Enter %d elements in the array:\n", n);

for (int i = 0; i < n; ++i) {

scanf("%d", &arr[i]);

}

bubbleSort(arr, n);

printf("Sorted array:\n");

for (int i = 0; i < n; ++i) {

printf("%d ", arr[i]);

}

printf("\n");

return 0;

}