

# Bubble sort

```
#include <stdio.h>
```

```
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]) {  
                int temp = arr[j];  
                arr[j] = arr[j+1];  
                arr[j+1] = temp;  
            }  
        }  
    }  
}
```

```
int main() {  
    int n;  
  
    printf("Enter the number of elements: ");  
    scanf("%d", &n);  
  
    int arr[n];  
  
    printf("Enter the elements:\n");  
    for (int i = 0; i < n; i++) {  
        scanf("%d", &arr[i]);  
    }  
  
    bubbleSort(arr, n);  
  
    printf("Sorted array: ");
```

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

## Output

Enter the number of elements: 2

Enter the elements:

3

3

Sorted array: 3 3

=== Code Execution Successful ===