

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

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

```
    int i, j, temp;
```

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

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

```
            if (arr[j] < arr[j+1]) {
```

```
                // swapping the elements if they are in the wrong order
```

```
                temp = arr[j];
```

```
                arr[j] = arr[j+1];
```

```
                arr[j+1] = temp;
```

```
            }
```

```
        }
```

```
    }
```

```
}
```

```
int main() {
```

```
    int arr[] = {5, 3, 8, 1, 2};
```

```
    int n = sizeof(arr) / sizeof(arr[0]);
```

```
    printf("Original array: ");
```

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

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

```
    }
```

```
    bubbleSort(arr, n);
```

```
    printf("\nSorted array in descending order: ");
```

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

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

```
    }
```

```
return 0;
```

```
}
```