

```

1  #include <stdio.h>
2  #include <math.h>
3
4  void swap(int *a, int *b);
5  void selection_sort(int arr[], int n);
6
7  int main()
8  {
9      int i, n;
10     printf("ETNOE: ");
11     scanf("%d", &n);
12     int arr[n];
13     printf("ETE: ");
14     for (i = 0; i < n; i++)
15     {
16         scanf("%d", &arr[i]);
17     }
18
19     selection_sort(arr, n);
20     return 0;
21 }
22
23 void selection_sort(int arr[], int n)
24 {
25     int i, j;
26     for (i = 0; i < n - 2; i++)
27     {
28         double largest = -INFINITY;
29         int idx_at_largest = -1;
30         for (j = 0; j < n - 1 - i; j++)
31         {
32             if (arr[j] > largest)
33             {
34                 largest = arr[j];
35                 idx_at_largest = j;
36             }
37             swap(&arr[j - i], &arr[idx_at_largest]);
38         }
39     }
40     printf("sorted array is: ");
41     for (int i = 0; i < n; i++)
42         printf("%d ", arr[i]);
43 }
44
45 void swap(int *a, int *b)
46 {
47     if (a != b)
48     {
49         *a = *a ^ *b;
50         *b = *a ^ *b;
51         *a = *a ^ *b;
52     }
53 }

```