

Answer: (penalty regime: 0 %)

```
1  #include <stdio.h>
2
3  void bs(int a[], int s) {
4      int is = 1;
5      while (is == 1) {
6          is = 0;
7          for (int i = 0; i < s; i++)
8              if (a[i] > a[i+1]) {
9                  int t = a[i];
10                 a[i] = a[i+1];
11                 a[i+1] = t;
12                 is = 1;
13             }
14     }
15 }
16
17
18 int main() {
19     int a;
20     scanf("%d", &a);
21
22     int b[a];
23     for (int i = 0; i < a; i++)
24         scanf("%d", &b[i]);
25
26
27     bs(b, a);
28
29     for (int i = 0; i < a; i++)
30         printf("%d ", b[i]);
31     printf("\n");
32 }
```

	Input	Expected
✓	5 30 40 50 20 10	10 20 30 40

Passed all tests! ✓

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 void merge(int arr[], int l, int m, int r)
4 {
5     int i, j, k;
6     int n1 = m - l + 1;
7     int n2 = r - m;
8
9     int lA[n1], rA[n2];
10
11     for (i = 0; i < n1; i++)
12         lA[i] = arr[l + i];
13     for (i = 0; i < n2; i++)
14         rA[i] = arr[m + 1 + i];
15
16     i = 0;
17     j = 0;
18     k = l;
19
20     while (i < n1 && j < n2)
21     {
22         if (lA[i] <= rA[j])
23             arr[k] = lA[i++];
24         else
25             arr[k] = rA[j++];
26         k++;
27     }
28
29     while (i < n1)
30         arr[k++] = lA[i++];
31
32     while (j < n2)
33         arr[k++] = rA[j++];
34 }
35
36 void ms(int arr[], int l, int r)
37 {
38     if (l < r)
39     {
40         int m = l + (r - l) / 2;
41         ms(arr, l, m);
42         ms(arr, m + 1, r);
43         merge(arr, l, m, r);
44     }
45 }
46
47 int main()
48 {
49     int a;
50     scanf("%d", &a);
51
52     int b[a];
53     for (int i = 0; i < a; i++)
54         scanf("%d", &b[i]);
55
56     ms(b, 0, a - 1);
57
58     for (int i = 0; i < a; i++)
59         printf("%d ", b[i]);
60
61     return 0;
62 }
```

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