INSERTION-SORT(A)

```
 1  for j = 2 to A.length
 2       key = A[j]
 3       // Insert A[j] into the sorted sequence A[1 .. j − 1].
 4       i = j − 1
 5       while i > 0 and A[i] > key
 6            A[i + 1] = A[i]
 7            i = i − 1
 8       A[i + 1] = key
 9  for j = 2 to A.length
10       key = A[j]
11       // Insert A[j] into the sorted sequence A[1 .. j − 1].
12       i = j − 1
13       while i > 0 and A[i] > key
14            A[i + 1] = A[i]
15            i = i − 1
16       A[i + 1] = key
17  for j = 2 to A.length
18       key = A[j]
19       // Insert A[j] into the sorted sequence A[1 .. j − 1].
20       i = j − 1
21       while i > 0 and A[i] > key
22            A[i + 1] = A[i]
23            i = i − 1
24       A[i + 1] = key
25  for j = 2 to A.length
26       key = A[j]
27       // Insert A[j] into the sorted sequence A[1 .. j − 1].
28       i = j − 1
29       while i > 0 and A[i] > key
30            A[i + 1] = A[i]
31            i = i − 1
32       A[i + 1] = key
33  for j = 2 to A.length
34       key = A[j]
35       // Insert A[j] into the sorted sequence A[1 .. j − 1].
36       i = j − 1
37       while i > 0 and A[i] > key
38            A[i + 1] = A[i]
39            i = i − 1
40       A[i + 1] = key
41  for j = 2 to A.length
42       key = A[j]
43       // Insert A[j] into the sorted sequence A[1 .. j − 1].
44       i = j − 1
45       while i > 0 and A[i] > key
46            A[i + 1] = A[i]
47            i = i − 1
48       A[i + 1] = key
49  for j = 2 to A.length
50       key = A[j]
51       // Insert A[j] into the sorted sequence A[1 .. j − 1].
52       i = j − 1
53       while i > 0 and A[i] > key
54            A[i + 1] = A[i]
55            i = i − 1
```