```
1:  procedure INSERTION-SORT(A)
2:      for j = 2 to A.length
3:          k = A[j]
4:          i = j − 1
5:          while i > 0 and A[i] > k
6:              A[i + 1] = A[i]
7:              i = i − 1
8:          A[i + 1] = k
```