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1  proc bubble( $A, n$ )  $\triangleq$ 
2    while  $\neg s$  do
3       $s \leftarrow \text{True}$ 
4      for  $i = 1, \dots, n + 1$  do
5        if  $A(i - 1) > A(i)$  then
6           $\text{swap}(A(i - 1), A(i))$ 
7           $s \leftarrow \text{False}$ 
8    return  $A$ 
9  proc selection( $A, n$ )  $\triangleq$ 
10   for  $j = 1, \dots, n + 1$  do
11      $\text{min} \leftarrow j$ 
12     for  $i = 1, \dots, n + 1$  do
13       if  $A(i) < A(\text{min})$  then
14          $\text{min} \leftarrow i$ 
15     if  $\text{min} \neq j$  then
16        $\text{swap}(A(j), A(\text{min}))$ 
17   return  $A$ 
18  proc insertion( $A, n$ )  $\triangleq$ 
19   for  $i = 1, \dots, n + 1$  do
20      $v \leftarrow A(i)$ 
21      $p \leftarrow i$ 
22     while  $p > 1 \wedge v < A(p - 1)$  do
23        $A(p) \leftarrow A(p - 1)$ 
24        $p \leftarrow p - 1$ 
25      $A(p) \leftarrow v$ 
26   return  $A$ 
27  proc merge( $A, n$ )  $\triangleq$ 
28   if  $n \leq 1$  then
29     return  $A$ 
30    $\text{mid} = \lfloor n/2 \rfloor$ 
31   for each  $v \in [A(i) \mid i < \text{mid}]$  do
32      $L \leftarrow L \cup v$ 
33   for each  $v \in [A(i) \mid i \geq \text{mid}]$  do
34      $R \leftarrow R \cup v$ 
35   return  $\text{merge}(L, \text{mid})$ 
     $\quad \quad \quad \text{merge}(R, n - \text{mid})$ 

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Sorting algorithms: bubble sort at line 1, selection sort at line 9, insertion sort at line 18, and some kind of merge sort at line 27.