

Sort Practice Worksheet

Identify the sort used and whether the numbers will end up in non-ascending(descending) or non-decreasing(ascending) order for each of the following. Remember, whether a sort works from the left or the right is irrelevant.

4 1 4 12 6 9 8
 4 1 4 12 6 8 9
 4 1 4 12 6 8 9
 4 1 4 6 8 9 12
 ...

8 1 3 9 4 2
 8 1 3 9 4 2
 8 3 1 9 4 2
 ...

3 5 9 7 2 8
 2 5 9 7 3 8
 ...

Show each new row of numbers after each complete pass of the inner loop for the following lists and sort methods (as per the algorithm, not as per a human - i.e., don't stop when they look sorted, stop when the algorithm stops)

Sort in ascending order and work from left to right.

selection sort:
 4 1 6 2 8 9 3

insertion sort:
 4 1 6 2 8 9 3

selection sort:
 1 2 3 4 5 6

insertion sort:
 1 2 3 4 5 6

selection sort:
 6 5 4 3 2 1

insertion sort:
 6 5 4 3 2 1