Java Name -
Sorting Algorithm Tracing Worksheet #1 Period -

Show contents of the array after each pass of the outer loop in the (ascending) **selection** sort algorithm from our lecture notes. Rewrite the previous contents even if there is no change in the order on a particular iteration.

Example:
50 60 30 20 45
20 60 30 50 45
20 30 60 50 45
20 30 45 50 60
20 30 45 50 60

1. *fill in the missing row*
80 50 60 45 10 75
10 50 60 45 80 75
10 45 60 50 80 75
10 45 50 60 80 75

10 45 50 60 75 80

2. *fill in 2 missing rows*
20 50 75 25 88 34
20 50 75 25 88 34
20 25 75 50 88 34

20 25 34 50 75 88

3. *write out all the rows*
90 80 70 60 50 40

Show contents of the array after each pass of the outer loop in the (ascending) **insertion** sort algorithm from our lecture notes. Rewrite the previous contents even if there is no change in the order on a particular iteration.

Example:

50 30 60 40 45
30 50 60 40 45
30 50 60 40 45
30 40 50 60 45
30 40 45 50 60

4. *fill in the missing row*
80 50 60 45 10 75
50 80 60 45 10 75

45 50 60 80 10 75
10 45 50 60 80 75
10 45 50 60 75 80

5. *write out 2 more rows*
20 50 75 25 88 34
20 50 75 25 88 34
20 50 75 25 88 34
20 25 50 75 88 34

6. *write out all the rows*
90 80 70 60 50 40