

1. The following list of names is unsorted. In successive columns, manually sort the list using the Selection Sort method. You may just use the first or first two letters to save space in the intermediate steps.

[illegible]

2. Repeat using the Bubble Sort method.

[illegible]

3. Repeat using the Insertion Sort method.

[illegible]

4. Consider the following list of sorted numbers:

1 2 4 6 7 9 12 13 15 17 19 23 24 25 26 29 30 32 34 35 37 41 44 46 50

Suppose you want to find the index of the number 32 (it's 17, starting at index 0). How many steps would this take

a. using a sequential search? (That is, just going down the line from smallest?)

b. using a binary search? Explain.

5. Show the steps involved in Merge Sorting the following set of numbers. Write your steps vertically.

8      5      11      2      15      7      9      3