

**WIA1002/WIB1002 Data Structures****Tutorial: Sorting and searching**

1. Compare between linear search and binary search algorithms by searching for the numbers 45 and 54 in the following list :

3            8            12            34            54            85            61            110

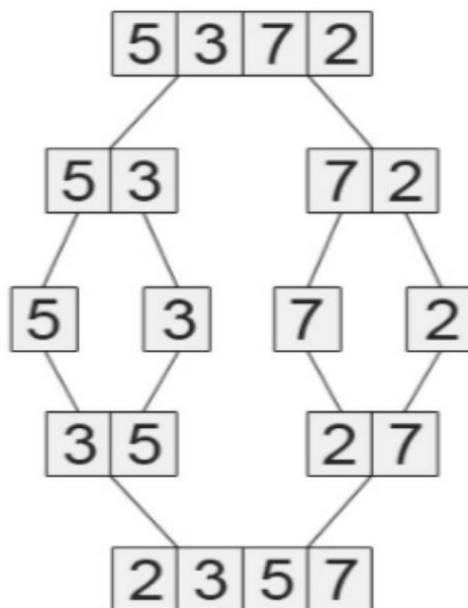
2. Describe the technique for each sort algorithm below. Given the following list:

90            8            7            56            125            237            9            1            653

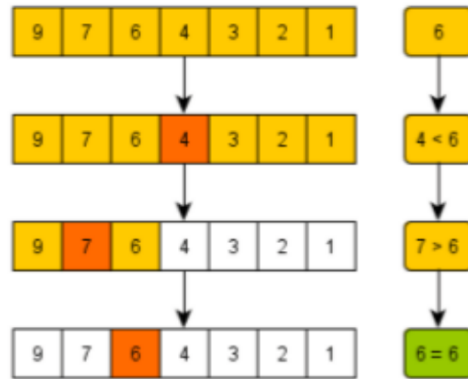
Show a trace of execution for:

- a. Selection sort
- b. Insertion sort
- c. Bubble sort
- d. Merge sort

3. Which type of sort algorithm is this?



4. Which type of search algorithm is this?



5. Which type of search algorithm is this?

