

Lab 8

Bubble, Heap, Quick, Merge Sort

Bubble Sort :

- 1- Sort the numbers [6, 2, 11, 7, 5] in ascending order using bubble sort
- 2- What is the number of swapping needed to sort the numbers 8, 22, 7, 9, 31, 5, 13 in ascending order using bubble sort ?!
- 3- Sort the numbers [14, 33, 27, 35, 10, 19 ,2 ,5] in ascending order using bubble sort

Heap Sort :

- 1- Sort the following list of numbers using Heap Sort
[82, 90, 10, 12, 15, 77, 55, 23]
- 2- Delete 10 after sorting, then Reheapify the list
- 3- Sort the numbers [14, 33, 27, 35, 10, 19 ,2 ,5] in ascending order using Heap Sort

Quick Sort :

- 1- Sort the following list of numbers using Quick Sort
[9, 7, 5, 11, 12, 2, 14, 3, 10, 6]
- 2- Sort the numbers [14, 33, 27, 35, 10, 19 ,2 ,5] using Quick Sort

Merge Sort :

- 1- Sort the following list of numbers using Merge Sort
[14, 7, 3, 12, 9, 11, 6, 2]

2- Sort the numbers [14, 33, 27, 35, 10, 19 ,2 ,5] using Merge Sort