

## **Exercise 7b – Sort II**

Given the sequence:

**23 78 10 21 56 90 54 12 32 95 1 78 50**

show the steps needed to do a **Quicksort** on the list.

Using big-O notation, what's the worst-case run-time of Quicksort?

Given the sequence:

**23 78 10 21 56 90 54 12 32 95 1 78 50**

show the steps needed to do a **Merge sort** on the list.

Using big-O notation, what's the worst-case run-time of Merge sort?

Given the sequence:

**23 78 10 21 56 90 54 12 32 95 1 78 50**

show the steps needed to do a **radix sort** on the list.

Using big-O notation, what's the worst-case run-time of radix sort?