

## **Exercise 6 – Search**

Given the sequence:

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

show the steps needed to do a **linear search** for the value 32.

Given the same sequence, show the steps needed to search for the value 25.

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

Given the sequence:

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

show the steps needed to do a **binary search** for the value 90.

Given the same sequence, show the steps needed to search for the value 25.

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