

Worksheet: Linear Search

1. Draw a **flowchart** that represents a **linear search** algorithm that will find the **largest value** in an array, then write the **pseudocode** for the flowchart as a **function** named **maximum**.
 - **Inputs:** the array (call it **a**).
 - **Output:** the largest value found in the array

Worksheet: Linear Search©2024 Chris Nielsen – www.nielsenedu.com

2. Draw a **flowchart** that represents a **linear search** algorithm that will find a **specific value** in an array, then write the **pseudocode** for the flowchart as a **function** named `linearSearch`.
- **Inputs:** the array (call it `a`), and the value to search for (call it `value`).
 - **Output:** the **index** in the array where the value is found; or a value of `-1` if the value is not found in the array.

Important: in pseudocode (as well as programming languages), if the flow of the program encounters a **RETURN** statement, the function will exit from that point and not continue to run any code after that line.