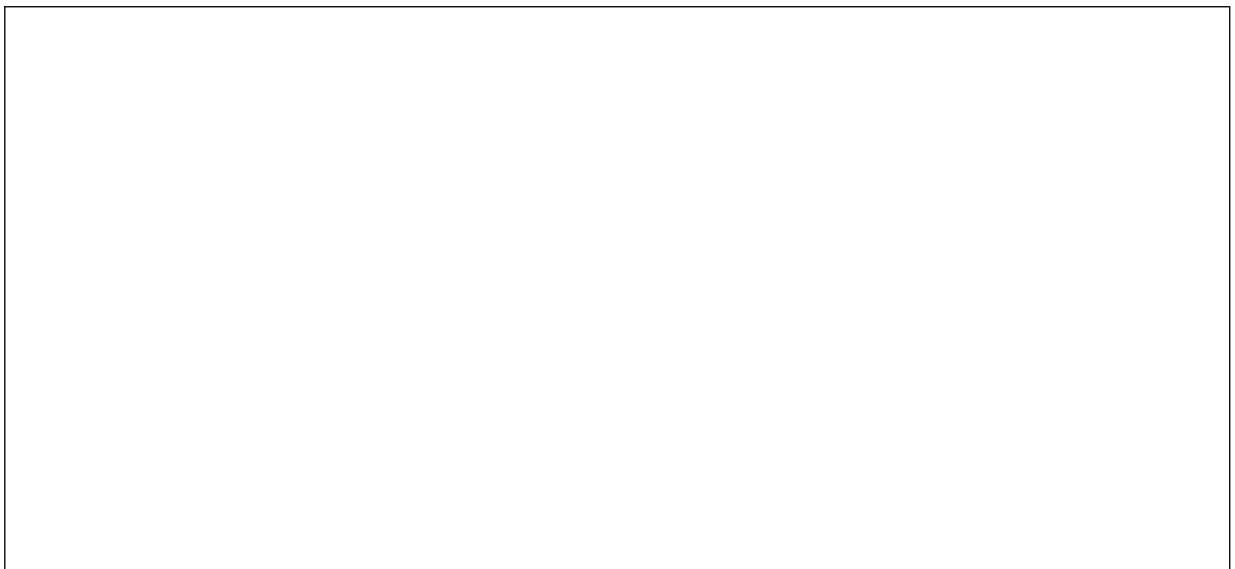


**Flowcharts and Pseudocode**

- 1a. Draw a **flowchart** that represents an algorithm that inputs an integer (call it `limit`) and outputs all even numbers from zero to `limit`, inclusive. (Assume `limit` is a whole number).



- 1b. Write the **pseudocode** for the flowchart above.



**Flowcharts and Pseudocode**

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.