Lab 9: Lists

- **List**
  - container of values that can be accessed by indices
  - created with square brackets `[]`
  - access an element in the list with the list's name and square brackets
    - get the element at index i:
      `value = aList[i]`
    - change the list at index i:
      `aList[i] = 4`
  - `.append(element)` – add the element to the end of the list
  - `.insert(loc, element)` – add the element to the location
  - `.pop(loc)` – remove the element at the location

- **listThings.py**
  - **product** – calculates and returns the product of all the values in the list
  - **countOdds** – counts and returns the number of odd values in the list
  - **squares** – creates and returns a new list containing the squares of all the values in the original lists
  - **computeAltSum** – calculates and returns the alternating sum
  - **replaceNegatives** – alters the list by changing all the negative values to 0
  - **shiftRight** – alters the list so that all the values are shifted right

- **testListThings.py**
  - finish the tester

- Don't forget to show me!