Lab22: Stacks and Queues as ArrayLists

Goal: Create a Stack class that stores its underlying data as an ArrayList<String>.
Create a Queue class that stores its underlying data as an ArrayList<Object>.

Part 1: Create a Stack class with the following:
  -Empty constructor
  -private ArrayList<String> data
  -public void push(String s)
  -public String pop()
  -public String toString()
  -public int size()

Part 2: In Main.main(), create a Stack with 5 different names. Print the Stack. Then one at a time, pop an individual name and print it until the Stack is empty.

Part 3: Create a Queue class with the following:
  -Empty constructor
  -private ArrayList<Object> data
  -public void enqueue(Object o)
  -public Object dequeue()
  -public String toString()
  -public int size()

Part 4: In Main.main(), create a menu system where you can
1. Add person to queue
2. Remove person from queue
3. Print queue
9. Exit

Part 5: In the Queue class, create a bubbleSort() method that bubble sorts the queue.

Part 6. Add the menu option:
4. Bubble sort

Part 7: Describe how the compareTo() method of Strings works.