

Level 3 Team Project

Work as a team to complete the following.

Your task is to build a simple GUI with six buttons. (see gui.png) There should be an up, down, left, right button and a start and stop button.

When the record button is pressed, the program should then remember all the unique directional buttons that are pressed. However, if a certain direction is pressed twice (or more) in a row, the program should only remember the first press. When the stop button is pressed, use a JOptionPane to display the list of unique directions in forward and reverse order.

SAMPLE OUTPUT

button presses:

record
up
down
down
left
up
up
right
right
right
right
down
down
up
left
stop

output:

forward: up, down, left, up, right, down, up, left
backward: left, up, down, right, up, left, down, up

This program should utilize both an ArrayList and a Stack. In addition to the working program, you must also write tests for all the classes of your program. Write tests for all methods **BEFORE** writing the actual methods.

*Bonus: Add some sort of indicator to let the user know if the program is recording or not.