

CS 1632 Software Quality Assurance Deliverable 4

Name: Mouhammadou Dabo

(Note: this is an individual project. No groups allowed.)

1. Optimized Feature 1

- **a.** Write the name of the feature optimized (the label on the button) RunContinuous
- **b.** Write the name(s) of the method(s) you refactored to optimize this feature MainPanel.calculateNextIteration() and MainPanel.iterateCell()

Name	Self Time (CPU)		Total Time (CPU)		Invocations	
(Cell. setAlive (boolean)		30.3 ms	(37.4%)	30.3 ms	(11.3%)	3,803
MainPanel.runContinuous ()		15.5 ms	(19.1%)	68.9 ms	(25,7%)	1
MainPanel.calculateNextIteration ()		14.6 ms	(18.1%)	56.9 ms	(21.2%)	76
MainPanel.iterateCell (int, int)	1	12.9 ms	(16%)	12.7 ms	(4.8%)	1,900
MainPanel.getNumNeighbors (int, int)		7.70 ms	(9.5%)	0.666 ms	(0.2%)	1,900
(Cell.getAlive ()		0.0 ms	(0%)	0.0 ms	(0%)	19,000
(Cell. resetBeenAlive ()		0.0 ms	(0%)	0.0 ms	(0%)	3
RunContinuousButton\$GameRunnable.run ()		0.0 ms	(0%)	68.9 ms	(25,7%)	1
StopButton\$StopButtonListener.actionPerformed		0.0 ms	(0%)	0.0 ms	(0%)	1
RunContinuousButton\$RunContinuousButtonListener		0.0 ms	(0%)	0.0 ms	(0%)	1
(java.aw		0.0 ms	(0%)	0.0 ms	(0%)	3
MainPanel.stop ()		0.0 ms	(0%)	0.0 ms	(0%)	1
MainPanel.displayIteration (boolean[][])		0.0 ms	(0%)	29.4 ms	(11%)	76
(MainPanel. backup ()		0.0 ms	(0%)	0.0 ms	(0%)	76

c.

2. Optimized Feature 2

- **a.** Write the name of the feature optimized (the label on the button) Write
- **b.** Write the name(s) of the method(s) you refactored to optimize this feature Cell.toString()

Name	Self Time (CPU)	Total Time (CPU)		Invocations	
FileAccess. saveFile (String, String)	46.8 ms	(100%)	46.8 ms	(51.2%)	44
(Cell.toString ()	0.0 ms	(0%)	0.0 ms	(0%)	1,100
(Cell.getAlive ()	0.0 ms	(0%)	0.0 ms	(0%)	1,100
WriteButton\$WriteButtonListener.actionPerfor	0.0 ms	(0%)	44.7 ms	(48.8%)	44
MainPanel.toString ()	0.0 ms	(0%)	0.0 ms	(0%)	44

C.