

Using your simple averaging automaton (13 cell by 13 cell version), determine what happens when you replace the formulas in the upper right, upper left, and lower left cells by 13 and the formula in the lower right cell by 0. Iterate until the pattern stabilizes. Print out a surface graph of the stable pattern. [Hints: (1) You may need to experiment to find the best major unit size to see the pattern in the surface graph. (2) Be sure your graph matches the table of values in orientation.] Print out your table of values as well. Write a paragraph describing the pattern in words, and explaining why Excel stabilized to the pattern you observed. Turn in your description, printouts and explanation to Robert Cusimano ([rob5236@uab.edu](mailto:rob5236@uab.edu)) by Wednesday, March 1. If you submit electronically, it would be best to submit an MSWord file including your table, graph, and paragraph. Be sure to title your email attachments YourName\_CA.doc.

**Assignment due date: Wednesday, March 1.**

13												13
0												13

Using your SAA (13 by 13), analyze the results of the Riverbed model begun in class. Iterate the model and print out the final table and a surface graph of the results. Write a paragraph describing the pattern in words, and explaining why Excel stabilized to the pattern you observed. Critique the results: what are some limitations of your model. Turn in your description, printouts and paragraph to Robert Cusimano ([rob5236@uab.edu](mailto:rob5236@uab.edu)) by Monday, March 6. If you submit electronically, it would be best to submit an MSWord file including your table, graph, and paragraph. Be sure to title your email attachments YourName\_River.doc.

**Assignment due date: Monday, March 6.**