Daily Assignment

read: Hand-out about Cellular Automata and Game of Life

due: Thursday, January 30, 8:30 am

Hand your answers back to me either via email (kvollmay@bucknell.edu) as textfile (not word document) or as hardcopy.

1. Cellular Automata
1a. Find some other source (besides the hand-out) about cellular automata. You will present in class what you found.
1b. Define what cellular automata are.

2. Project I
Find a task you had to do in one of your classes at Bucknell for which a small C++ program would have saved you time. Examples: Error Analysis of Data; Numerical Integration or Differentiation; any Task for which you used EXCEL or MatLab or any other program. In case you do not find any task of any of your Bucknell classes, use a task for your daily life or hobbies (e.g. baseball statistics analysis, advanced shopping list, etc.).
2a. Write the C++ program for this task.
2b. Write a 1-2 page long paper which describes the background of your task (e.g. for baseball statistics, what the data are), the task you chose (e.g. some averages and error bars or how to decide which baseball player is the best with respect to some property), the C++ tools you used (e.g. repetition), and the results. Send the paper to me via email or hand it to me as hardcopy, and make your program readable to me.
2c. You will present your paper on January 30 in class in a 5-7 min long talk.

3. What of this assignment and the last class did you find most interesting and/or most difficult?