Andrew Plum

Cs 121

1/19/22

Week 2 Notes

* Cellular Automata
  + Cells
    - Don’t need to be square
    - 1d, 2d, 3d, 4d, etc.
  + Rules for updating each cell.
  + Uses
    - Can be used to simulate and build a computer
    - Used in biology and chemistry and shown in nature
* Stacks
  + Restricted data structure
  + Used to compare things like parentheses
  + Imagine a stack of plates
    - You can put one on
    - You can take one off
    - You can check if its empty
    - You can see how many are in the stack
* LIFO
  + Last in first out
* FILO
  + First in last out