Andrew Plum

Cs 121

1/24/22

Week 3 Notes

* Math Notations
  + Infix Notation
    - 5 + 6 \* 3 = 23
  + Prefix Polish Notation
    - + 5 6 = 11
  + Postfix Reverse Polish Notation
    - 5 6 + = 11
      * Push 5, push 6, I see a + so pop the top two values, add them and push that onto the stack; = pop the top value and return it.
    - 5 6 + 3 \* with ()’s
    - 5 6 3 \* +
    - - signs might only pop off the top value
    - -5 6 –
      * Negative 5 minus 6
* Enum
  + Stands for enumerated type
  + Deals with type
* Stacks
  + First in last out
* Queues
  + Like stacks except they are first in first out
  + Circular arrays
    - Not really using a circular array but we think of it as circular
    - As soon as we get to the end of the array, we start reusing the start again.
    - Keep track of front and back to do a circular array
      * Need three variables for the circular
        + The front, back, and size of the circular array.