CPE/CSC 101

- Conclusion

- Questions

Friday

- Extended Lab

row 0   row 1

[| 0 1 2 3 | 4 5 6 3 | ...]
    pixel   0 1 2 3
   0   1 2 3   0   width = 4

col →
row 0
    1

width = 4
row → 0//4   1//4   2//4   3//4   4//4   5//4 6//4 7//4
        0   1   2   3   4   5   6   7   8 ...
                      ↑   ↑
              2 // width   2 // 4   6 // 4

$$4 \overline{)\,6\,} \quad \begin{array}{c} 1 \quad \text{rem } 2 \end{array}$$

$$\frac{4}{\boxed{2}}$$
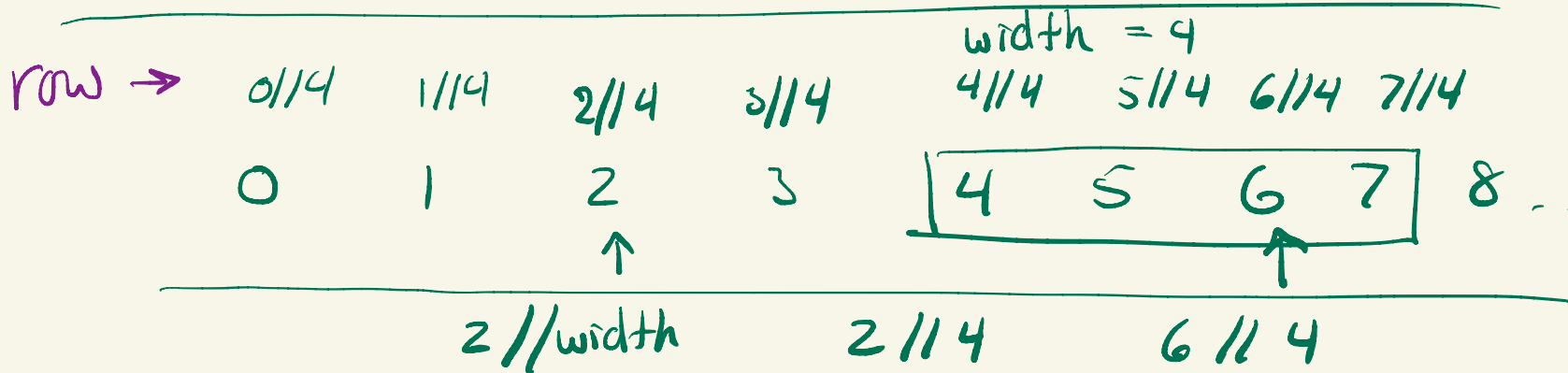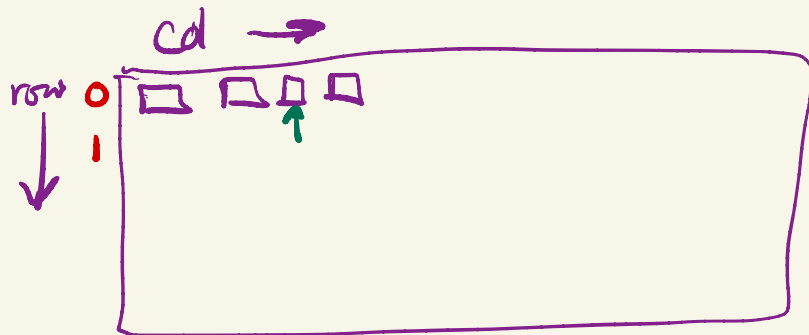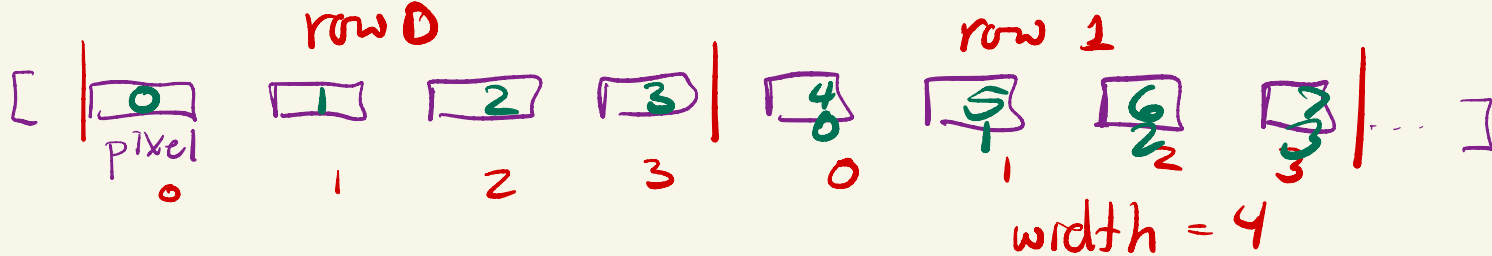
6 % 4

row :   pixel# // width

col :   pixel# % width
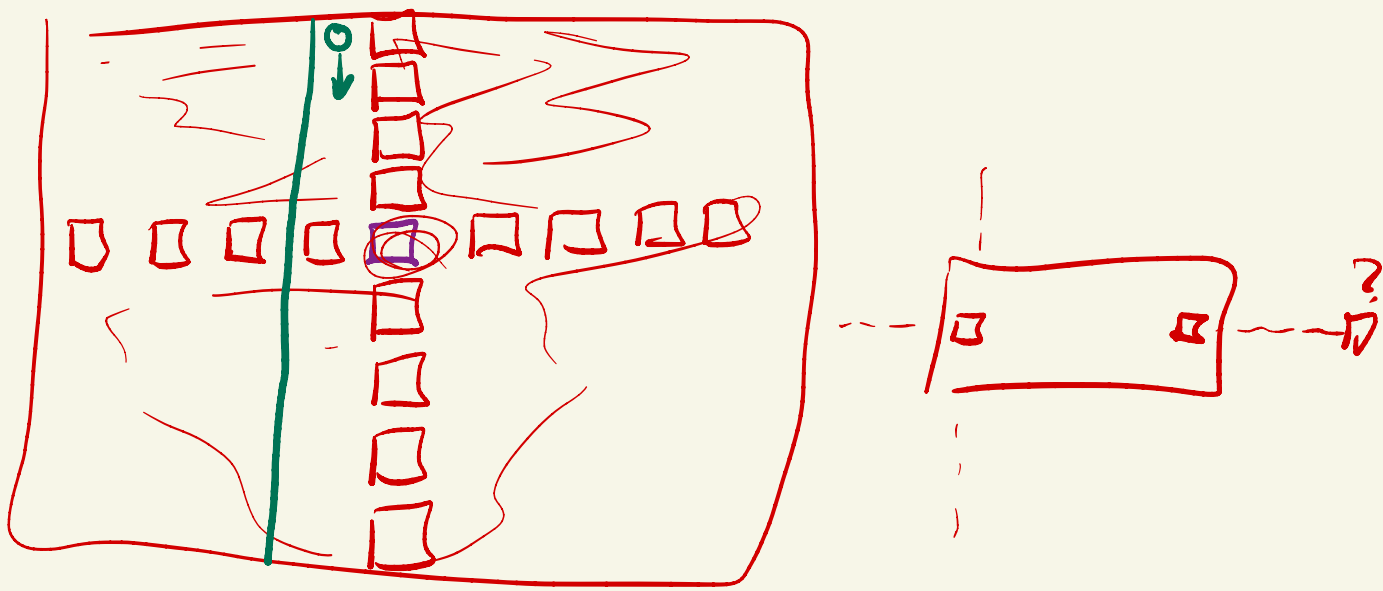
bounds checks

IDE + debugger   DATA!!

github
_____

simple data   lists
composite data   - comprehensions
    - objects   loops
                         patterns
functions   - map
    - testing   - filter
    - parameter   while

                         list functions
logic   - search
if   fold {- min/max   value
                                            index
                              - sum
                              - ascending (ordered!)

- strings
  - → sequence
  - → encodings
  - → split, trim,
    upper, isupper

- files

- lists of list

data
  - primitive
  - objects
  - sequences

decisions

iterate/repeat

functions

Going Forward

- Start early
- ask questions
- read carefully
- practice debugging