

CS 314: Data Structures

September 14, 2020

Sam's Section

Slides available at: www.cs.utexas.edu/~slaberge

Style Issues for CodeCamp

- Many Style Issues can be avoided by using your IDE's auto-formatter:

	Windows	macOS
IntelliJ	<code>Ctrl+Alt+L</code>	<code>Command+Option+L</code>
Eclipse	<code>Ctrl+Shift+F</code>	<code>Command+Shift+F</code>
VSCode	<code>Shift+Alt+L</code>	<code>Shift+Option+F</code>

- Come to Help Hours if you have style questions.
- For specific questions, you can ask on Piazza

Slides Redacted

(See Discussion Section Recording on Canvas)

Assignment 2: MathMatrix

Due: [Thursday, September 17, 2020](#)

MathMatrix

Matrix Multiplication “Review”

a	b	c
d	e	f
g	h	i

X

j	k
m	n
p	q

3 x 3

3 x 2

These two need to be the same! (precondition)

These two are your resulting matrix size:

3 x 2

MathMatrix

Matrix Multiplication “Review”

a	b	c
d	e	f
g	h	i

X

j	k
m	n
p	q

=

aj + bm + cp	

MathMatrix

Matrix Multiplication “Review”

a	b	c
d	e	f
g	h	i

X

j	k
m	n
p	q

=

aj + bm + cp	ak + bn + cq

MathMatrix

Matrix Multiplication “Review”

a	b	c
d	e	f
g	h	i

X

j	k
m	n
p	q

=

aj + bm + cp	ak + bn + cq
dj + em + fp	

MathMatrix

Matrix Multiplication “Review”

a	b	c
d	e	f
g	h	i

X

j	k
m	n
p	q

=

aj + bm + cp	ak + bn + cq
dj + em + fp	dk + en + fq

MathMatrix

Matrix Multiplication “Review”

a	b	c
d	e	f
g	h	i

X

j	k
m	n
p	q

And so on... =

aj + bm + cp	ak + bn + cq
dj + em + fp	dk + en + fq
gj + hm + ip	gk + hn + iq

Section Problem

Array-based Lists