

Lab Goal : The lab was designed to teach you more about parameters.

Lab Description : Read in matrices and perform math operations on them.

Sample Output :

Files Needed ::

ThreeDRay.java
ThreeDRayRunner.java

How many matrices do you wish to enter? :: 3

What is the size of matrix 0 : 2

Enter a value for spot 0 - 0 :: 1
Enter a value for spot 0 - 1 :: 1
Enter a value for spot 1 - 0 :: 1
Enter a value for spot 1 - 1 :: 1

ThreeDRay before setting mat at spot 0
mat 0
mat 1
mat 2

ThreeDRay after setting mat at spot 0
mat 0
row 0 1 1
row 1 1 1
mat 1
mat 2

BONUS OPTION – Matrix Multiplication

Matrix Multiplication Logic

[1 2] X [5 6]
[3 4] [7 8]

[1 * 5 + 2 * 7] [1 * 6 + 2 * 8]
[3 * 5 + 4 * 7] [3 * 6 + 4 * 8]

Final Matrix

[19 22]
[43 50]

for loop r - rows
for loop c - cols
for loop i - inside

What is the size of matrix 1 : 2

Enter a value for spot 0 - 0 :: 2
Enter a value for spot 0 - 1 :: 2
Enter a value for spot 1 - 0 :: 2
Enter a value for spot 1 - 1 :: 2

ThreeDRay before setting mat at spot 1
mat 0
row 0 1 1
row 1 1 1
mat 1
mat 2

ThreeDRay after setting mat at spot 1
mat 0
row 0 1 1
row 1 1 1
mat 1
row 0 2 2
row 1 2 2

mat 2

What is the size of matrix 2 : 3

Enter a value for spot 0 - 0 :: 3
Enter a value for spot 0 - 1 :: 3
Enter a value for spot 0 - 2 :: 3
Enter a value for spot 1 - 0 :: 3
Enter a value for spot 1 - 1 :: 3
Enter a value for spot 1 - 2 :: 3
Enter a value for spot 2 - 0 :: 3
Enter a value for spot 2 - 1 :: 3
Enter a value for spot 2 - 2 :: 3

ThreeDRay before setting mat at spot 2

mat 0
 row 0 1 1
 row 1 1 1

mat 1
 row 0 2 2
 row 1 2 2

mat 2

ThreeDRay after setting mat at spot 2

mat 0
 row 0 1 1
 row 1 1 1

mat 1
 row 0 2 2
 row 1 2 2

mat 2
 row 0 3 3 3
 row 1 3 3 3
 row 2 3 3 3

Adding matrix at 0 and matrix at 1

3 3
3 3