Matrix Computational Package

Elementary Operations:

* Addition/Subtraction
* Multiplication (scalar & matrix)
* Transpose

Boolean checks

* Is square
* Is consistent
* Are linearly dependent
* Are linearly dependent (columns)

Additional Operations:

* Reduce to echelon form
* Reduce to reduced echelon form
* Homogenous solution
* Non-homogenous solution
* Inverse
* Determinant
* Cramer’s Rule implementation

Miscellaneous

* Random matrix (takes in dimension)
* Advanced random matrix