- Make Martix class
- README file

Class

- . use no STL containers (vectors)
- · make use of dynamic arrays, new, and delety
- · matrix with i rows and j columns
- · using two climensional arrays (double * data)

Start by writing a constructor that take, two unsigned ints: a row count and column count, and a double fill value.

-If either row or column is zero should return oxo matrix
-All starting values start at fill value

suport
equality operator "==" > all indicits must be equal
inequality operator "!="

Other implementations

- o num-rows()
- · num_cols()
- · clearc) To makes matrix an empty matrix

 > makes rows and columns zero

 The de allocates any memory currently held by the Matrix
- oget() to takes a row, column, and a double
 by if row and column are in boundry
 by the value at around should be stored in
 the double and return brue
 otherwise return false
 - . set() & takes in a row, column, and double value

 Is in bounds return tree and set to value

 Is if not in bounds return false
 - · operator << > o allows to print (watch video on this

Simple Matrix Operations

multiply-by-coefficient()
 takes a double coefficient
 multiplies every element by coefficient

·Swap-row()

-takes two unsigned int
-source now and target row
-if both inside matrix switch values
of two rows and return true
-else return false

·transpose()

-type void
-type void
-turns mxn >> nxm
- [1 23] -> [1 4]
- [456] -> [36]

Binary Matrix Operations

· add() · subtract()

> -needs to be same dimension -takes in one argument (another motric)

Harder Matrix operations

· get-roul)

.get-col()

-take in unsigned int -return double *

· quarter ()

-takes in no argument

- Splite matrix into guarters

-neturns matrix +

OUL UR 2 3 LL LR G