

3. Write a MATLAB function named “cumulative” which takes a single row vector “**X**” as an input and returns a row vector “**Y**”. It should be the case that $Y(i)$ is equal to the sum of all X values with indices less than or equal to i . So if $X=[3\ 1\ 4\ -1\ 5]$ then Y should be $[3\ 4\ 8\ 7\ 12]$

4. Write a function named “initM” which takes no arguments and returns a 10 by 10 matrix with the following properties:

- Set the upper right-hand corner (5 by 5) to 2s.
- Set the lower left-hand corner to 4s.
- Set 2 by 2 square in the upper left-hand corner to 5s.
- Set all edges not already set to be 6s.
- Set the rest of the matrix to be 0’s.

Hints: Don’t do things in this order and look at inlab 12!