

Homework 2: Loops

1. Write a function m-file, called `maxi.m`, that will find the index, call it `imax`, of the most positive element in a vector `x`. Make sure you document the file with comments.
2. Redo problem 1 using Matlab's `find` command (should be only one line), but include it in the first m-file with the choice of which way the user wants to find `imax`.
3. Write a script m-file `hw2prob3.m` that will create the following matrix using only **for** ...**end** loops (do not use colon notation).

```
1  2  3  4
5  6  7  8
9 10 11 12
13 14 15 16
17 18 19 20
```

Hint: Think about each entry of the matrix **A** as $A(i,j)$. Then create one **for** loop for `j` inside of another **for** loop for `i`.