```
Testing Default Constructor...
0000
0000
0000
0000
Testing Parameterized Constructor...
0
0
Testing Copy Constructor...
First Matrix
1000
0200
0030
0004
Second Matrix:
1000
0200
0 0 3 0
0 0 0 4
Testing for Number of Rows...
Matrix:
00000000
00000000
00000000
NumRows: 3
Testing for Number of Columns...
Matrix:
000000
000000
NumCols: 6
Testing Grow Columns...
1000
0 2 0 0
00300000
0 0 0 4
00000000
```

```
Testing Grow...
1
  0
    0
       0
         0
0
  2
    0
       0
         0
0
  0
    3
       0
         0
0
  0
    0
       4
         0
0
  0
    0
       0
         0
Testing Advanced GrowCol & Grow...
Growcol matrix at row 1 to 8 columns
1
  0
    0
       0
0
  2
    0
       00000
0
  0
    3
       0
0
  0
    0
       4
Grow matrix to 9x9 after growcols
1
  0
    0 0
         0 0
              0
                0 0
  2
0
    0
       0
         0
            0
              0
                0
                   0
  0
    3
       0
         0
0
            0
              0
                0
                   0
0
  0
    0
       4
         0
            0
              0
                0
                   0
  0
0
    0
       0
         0
            0
              0
                0
                   0
0
  0
    0
       0
         0
            0
              0
                0
                   0
0
  0
    0
       0
         0
            0
              0
                0
                   0
0
  0
    0
       0
         0
            0
              0
                0
                   0
0
  0
    0
       0
         0
            0
              0 0 0
Testing Size...
Matrix:
1
  0
    0
       0
         0
           0
              0
                0
  2
    0
       0
         0
            0
0
              0
0
  0
    3
       0
         0
            0
              0
                0
0
  0
    0
       4
         0
            0
Size (# of elements): 32
Testing At...
Matrix:
185 0 0
  134
0
       0
0
  0 516
0
  0
    0 380
The number at (1,1) is: 134
The number at (2,2) is: 516
The number at (1,3) is:
-----
```

```
Testing Scalar...
 0
   0
      0
0
 4
   0
     0
 0 6 0
0
 0
0
   0 8
6
 0 0 0
0
 12 0 0
0 0 18 0
0 0 0 24
Testing Scalar...
Matrix before scalar multiplication:
1000
 2
0
   0
      0000
0
 0
   3
      0
0 0
   0 4
       0 0 0 0
Matrix after scalar multiplication:
2
 0
   0 0
0 4
   000000
0060
00080000
Testing Matrix Multiplication...
Matrix 1 (Multiplier):
1 2
3 4
Matrix 2 (Multiplier):
5 6
78
Matrix 3 (Result):
19 22
43 50
```