```
   1 /Users/rezahaghighi/anaconda/bin/python /Users/rezahaghighi
     /Projects/personal/pynotes/ucb-python-in-da/hw2.py
   2 [[ 0.62911358  0.62493831  0.43642201  0.43182725  0.22881
       ]
   3  [ 0.70129593  0.30251571  0.82586999  0.55246308  0.
     62346571]
   4  [ 0.11384058  0.26220513  0.42088357  0.43457948  0.
     18199202]]
   5 A Size:
   6 15
   7
   8 A Length:
   9 3
  10
  11 3,4  A :
  12 [[ 0.62911358  0.62493831  0.43642201  0.43182725]
  13  [ 0.22881     0.70129593  0.30251571  0.82586999]
  14  [ 0.55246308  0.62346571  0.11384058  0.26220513]]
  15
  16 Matrix B , transpose of A:
  17 [[ 0.62911358  0.22881     0.55246308]
  18  [ 0.62493831  0.70129593  0.62346571]
  19  [ 0.43642201  0.30251571  0.11384058]
  20  [ 0.43182725  0.82586999  0.26220513]]
  21
  22 Max of col 1 in B:
  23 0.825869988408
  24
  25 Min val of B:
  26 0.11384057771
  27
  28 Max val of B:
  29 0.825869988408
  30
  31 X is:
  32 [[ 0.39518333  0.77013229  0.48415407  0.66194671]]
  33
  34 D is:
  35 [[ 1.2270425 ]
  36  [ 1.32365868]
  37  [ 0.92715749]]
  38
  39 z is:
  40 (2+3j)
  41
  42 Z real is:
  43 2.0
  44
  45 Z abs is:
  46 3.60555127546
```

```
47
48 Z imag is:
49 3.0
50
51 C is:
52 [[ 4.42416464]
53  [ 4.77251924]
54  [ 3.34291386]]
55
56 New B is:
57 [[ 0.62911358  0.22881     0.55246308]
58  [ 0.62493831  0.70129593  0.62346571]
59  [ 0.43642201  0.30251571  0.11384058]
60  [ 0.43182725  0.82586999  0.26220513]]
61
62 Reza Haghighi is done with HW2
63
64 Process finished with exit code 0
65
```