

```

alexhernandez@Alexs-MBP 3010proj2 % cd "/Users/alexhernandez/GIT/3010proj2/" && javac proj2Demo3010.java && java proj2Demo3010
Please enter number of equations: 3
Would you like to use a file for your matrix, if so enter Y, if not then enter any other character: Y

[[5.0, -1.0, 0.0, 7.0], [-1.0, 3.0, -1.0, 4.0], [0.0, -1.0, 2.0, 5.0]]
Please print the error coefficient: 0.01

You entered a matrix of:
5 -1 0 7
-1 3 -1 4
0 -1 2 5
Please enter the starting solution for the problem: 0
0
0

Jacobi Iteration
0.0000 0.0000 0.0000
1.4000 1.3333 2.5000
1.6667 2.6333 3.1667
1.9267 2.9444 3.8167
1.9889 3.2478 3.9722
2.0496 3.3204 4.1239
2.0641 3.3911 4.1602
2.0782 3.4081 4.1956
Gauss Seidel Iteration
0.0000 0.0000 0.0000
1.4000 1.8000 3.4000
1.7600 3.0533 4.0267
2.0107 3.3458 4.1729
2.0692 3.4140 4.2070
2.0828 3.4299 4.2150
alexhernandez@Alexs-MBP 3010proj2 %

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alexhernandez@Alexs-MBP 3010proj2 % cd "/Users/alexhernandez/GIT/3010proj2/" && javac proj2Demo3010.java && java proj2Demo3010
Please enter number of equations: 4
Would you like to use a file for your matrix, if so enter Y, if not then enter any other character: Y

[[7.0, 1.0, -1.0, 2.0, 3.0], [1.0, 8.0, 0.0, -2.0, -5.0], [-1.0, 0.0, 4.0, -1.0, 4.0], [2.0, -2.0, -1.0, 6.0, -3.0]]
Please print the error coefficient: 0.01

You entered a matrix of:
7 1 -1 2 3
1 8 0 -2 -5
-1 0 4 -1 4
2 -2 -1 6 -3
Please enter the starting solution for the problem: 0
0
0
0

Jacobi Iteration
0.0000 0.0000 0.0000 0.0000
0.4286 -0.6250 1.0000 -0.5000
0.8036 -0.8036 0.9821 -0.6845
0.8793 -0.8966 1.0298 -0.8720
0.9529 -0.9529 1.0018 -0.9203
0.9708 -0.9742 1.0081 -0.9683
0.9884 -0.9884 1.0006 -0.9803
0.9928 -0.9936 1.0020 -0.9922
Gauss Seidel Iteration
0.0000 0.0000 0.0000 0.0000
0.4286 -0.6786 1.1071 -0.6845
0.8793 -0.9060 1.0487 -0.9203
0.9708 -0.9764 1.0126 -0.9803
0.9928 -0.9942 1.0031 -0.9951
0.9982 -0.9986 1.0008 -0.9988
alexhernandez@Alexs-MBP 3010proj2 %

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