CS 211 Assignment2

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Code: https://github.com/UCR-HPC/cs211-hw2-solving-large-linear-system-LucasL258.git

Question 1

So for A = LU

Question 2

Matrix size \ code	my	lapack
1000	0.293556s	0.083454s
2000	2.147591s	0.475916s
3000	7.213021s	1.317801s
4000	16.943788s	1.639566s
5000	34.620473s	2.971550s

Gflop for my code: around 100 GHz Gflop for LAPACK: around 350 GHz

Question 3

So for A = LU

Question 4