Project II: Google PageRank

This project is based around the paper "The $25,000,000,000 eigenvector" by Kurt Bryan and Tanya Leise, a copy of which can be found on the course website. The *minimum* you should do for this project is to read sections 1, 2, and 3, hand in a 1-2 page summary of your favorite part or parts of the paper, and hand in complete solutions to exercises 1, 2, 3, 4, 11, 12, and 13 from the paper. You may need to use Mathematica in order to make some of the matrix computations easier; see the instructions towards the end of the Project I description for details on how to get started.

I encourage you to hand in solutions to one or more of exercises 5, 6, 8 and 10 as well; doing so will boost your grade. In addition, handing in any other exercises from the paper will be welcomed and rewarded. The material in Section 4 gives an interesting practical method for finding an eigenvector of a very large matrix, and might be a direction you would like to pursue.