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Compsci 446 Page Rank Report

1. ***Location of Part A and Part B in the CODE:*** Code is in the inlinks and the page rank function.
   lines 12-25 for most inlinks and lines 28-124 for page rank and the rest is driver code
2. ***Description of System and Design Tradeoffs:*** I manually unzipped the file in the machine and read the file with the readlines function. I had to use helper functions to make the coding easier. I had a hard time deciding the data structure for each variable in the page rank algorithm. Maximum inlink algorithm was much easier to implement.
3. ***Software Libraries Used:*** Only collections library for Counter, and copy library for deepcopy have been imported.
4. Inlinks algorithm just calculates the maximum number of inlinks to a certain page. Page rank is a recursive algorithm which also takes into account the number of inlinks the source of a particular page had as well. While it's true that the page with the most inlinks is most probably the highest ranked page. This holds true even in our assignment (index). But having that as the only criteria is not the best move as we are not considering the popularity of its ancestors in the graph.
5. It may or may not converge. But in this project it is converging.