PageRank (Optional programming assignment)

Help Center

The **due date** for this quiz is **Mon 16 Nov 2015 3:59 PM CST**.

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Question 1

This assignment is an optional challenge and it won't count in your final grade.

In this assignment you have to implement a scalable version of the PageRank algorithm as seen in the video "How we Really Compute PageRank". Use a random teleporting probability of 0.2 and run your algorithm using the google web graph dataset available here.

This dataset has a subset of the web graph. Each line in the file has two numbers separated by a space. This represents a directed edge in the graph. For example, "0 824020" is an edge from node 0 to node 824020. Below are the first 10 lines in the file:

Directed graph (each unordered pair of nodes is saved once): web-Google.txt
Webgraph from the Google programming contest, 2002
#Nodes: 875713 Edges: 5105039
FromNodeId ToNodeId0 11342
0 824020
0 867923
0 891835
11342 0
11342 27469

Please submit the PageRank value of node named "99" in the box below. Write your answer with 10 decimals and using scientific notation. For example 0.00000012345 would become 1.234e-7.

Once you have solved this assignment, share the running time of your algorithm in this thread so you can compare how efficient your implementations are. Keep in mind that comparisons can only be made between implementations using the same programming language.

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You cannot submit your work until you agree to the Honor Code. Thanks!