Part 2

We implemented the Random Surfer algorithm with the Damping factor according to the formula given in class. After building the graph we iterated on our vertex list until the PageRank change from one iteration to another was smaller than epsilon (a constant we sat to be 0.01) for all vertices.

Results for different Damping factors:

For Damping=0:

1. Cnn
2. Yahoo
3. Aol

For Damping = 0.1:e

1. Cnn
2. Bbc
3. Nytimes

For Damping = 0.3:

1. Cnn
2. Bbc
3. Nytimes

Execution time (milliseconds): 64

For a Damping factor of 0.85 I tried initial PageRanks of 1,5 and 10 and the results were the same for all:

1. Cnn
2. Bbc
3. Nytimes