In [23]:

```
#student_name:YonghengHou
#student number:5556661
#login:yh790
import numpy as np
#intizize all element to zero, mean no links between them
w, h = 4772, 4772;
Matrix = [[0 for x in range(w)] for y in range(h)]
#read file from "e" first
with open ('gr0. epa. txt', 'r') as f:
    for line in f:
        split=line.split(" ", 2)
        #print(split[0])
        if (split[0]=='e'):
            #print(split[1])
            first=int(split[1])
            second=int(split[2])
            #because each other links
            Matrix[first][second]=1
            Matrix[second][first]=1
```

In [24]:

```
#convert to numpy array
np_Matrix = np. array(Matrix)
print(type(Matrix[0]))
```

<class 'list'>

In [25]:

```
from scipy. sparse import csc matrix
def pageRank(G, s = .85, maxerr = .0001):
    Computes the pagerank for each of the n states
    Parameters
    G: matrix representing state transitions
       Gij is a binary value representing a transition from state i to j.
    s: probability of following a transition. 1-s probability of teleporting
       to another state.
    maxerr: if the sum of pageranks between iterations is bellow this we will
            have converged.
    n = G. shape[0]
    # transform G into markov matrix A
    A = csc matrix(G, dtvpe=np. float)
    rsums = np. array (A. sum(1))[:, 0]
    ri, ci = A. nonzero()
    A. data /= rsums[ri]
    # bool array of sink states
    sink = rsums == 0
    # Compute pagerank r until we converge
    ro, r = np. zeros(n), np. ones(n)
    while np. sum (np. abs (r-ro)) > maxerr:
        ro = r. copv()
        # calculate each pagerank at a time
        for i in range (0, n):
            # inlinks of state i
            Ai = np. array(A[:, i]. todense())[:, 0]
            # account for sink states
            Di = sink / float(n)
            # account for teleportation to state i
            Ei = np. ones(n) / float(n)
            r[i] = ro. dot(Ai*s + Di*s + Ei*(1-s))
    # return normalized pagerank
    return r/float(sum(r))
if name ==' main ':
    # Example extracted from 'Introduction to Information Retrieval'
   G = np Matrix
    print (pageRank(G, s=.86))
```

```
[2. 30354239e-04 2. 30354239e-04 2. 30354239e-04 ... 3. 22495942e-05 3. 22495942e-05 2. 30354239e-04]
```

In [26]:

```
import os
import sys
import math
import numpy
import pandas
Power Iteration Method
•Given a web graph (represented as M) with nnodes, where the nodes are pages and edges are hyper
•Power iteration: a simple iterative scheme
• Suppose there are N web pages
• Initialize: r(0) = [1/N, \dots, 1/N]T
• Iterate: r(t+1) = M \cdot r(t)
• Stop when |r(t+1) - r(t)|/1 < e
def __extractNodes(matrix):
   nodes = set()
    for colkey in matrix:
        nodes. add (colKey)
    for rowKey in matrix.T:
       nodes. add (rowKey)
    return nodes
def makeSquare(matrix, keys, default=0.0):
    matrix = matrix.copy()
    def insertMissingColumns(matrix):
        for kev in kevs:
            if not key in matrix:
                matrix[key] = pandas. Series (default, index=matrix.index)
        return matrix
    matrix = insertMissingColumns(matrix) # insert missing columns
    matrix = insertMissingColumns(matrix.T).T # insert missing rows
    return matrix. fillna (default)
def ensureRowsPositive(matrix):
   matrix = matrix. T
    for colkey in matrix:
        if matrix[colKey].sum() == 0.0:
            matrix[colKey] = pandas. Series (numpy. ones (len (matrix[colKey])), index=matrix. index)
    return matrix. T
def normalizeRows (matrix):
    return matrix.div(matrix.sum(axis=1), axis=0)
def __euclideanNorm(series):
    return math. sqrt(series. dot(series))
# PageRank specific functionality:
def startState(nodes):
    if len(nodes) == 0: raise ValueError("There must be at least one node.")
    startProb = 1.0 / float(len(nodes))
    return pandas. Series({node : startProb for node in nodes})
def integrateRandomSurfer(nodes, transitionProbabilities, rsp):
```

```
alpha = 1.0 / float(len(nodes)) * rsp
    return transitionProbabilities.copy().multiply(1.0 - rsp) + alpha
def powerIteration(transitionWeights, rsp=0.15, epsilon=0.00001, maxIterations=1000):
    # Clerical work:
    transitionWeights = pandas.DataFrame(transitionWeights)
    nodes = __extractNodes(transitionWeights)
    transitionWeights = __makeSquare(transitionWeights, nodes, default=0.0)
    transitionWeights = ensureRowsPositive(transitionWeights)
    # Setup:
    state = __startState(nodes)
    transitionProbabilities = __normalizeRows(transitionWeights)
    transitionProbabilities = __integrateRandomSurfer(nodes, transitionProbabilities, rsp)
    # Power iteration:
    for iteration in range(maxIterations):
        oldState = state.copy()
        state = state.dot(transitionProbabilities)
        delta = state - oldState
        if euclideanNorm(delta) < epsilon:</pre>
           break
    return state
powered=powerIteration(G)
```

In [5]:

print(powered)
print(type(powered))

0 1	0. 001154 0. 001941
2	0.000230
3 4	0. 000682 0. 000449
5	0.000443
6	0.001051
7 8	0. 010864 0. 000680
9	0.000920
10	0.000428
11 12	0. 004873 0. 006821
13	0.000787
14 15	0. 000393 0. 001682
16	0.001082
17	0.000337
18 19	0. 000680 0. 001082
20	0.001082
21	0.000462
22 23	0. 001246 0. 001399
24	0.000035
25	0.000441
26 27	0. 001225 0. 001546
28	0.000572
29	0. 003561
4742	0.000085
4743 4744	0. 000085 0. 000120 0. 000085
4743 4744 4745	0. 000120 0. 000085 0. 000321
4743 4744 4745 4746	0. 000120 0. 000085 0. 000321 0. 000085
4743 4744 4745	0. 000120 0. 000085 0. 000321
4743 4744 4745 4746 4747 4748 4749	0. 000120 0. 000085 0. 000321 0. 000085 0. 000085 0. 000211 0. 000243
4743 4744 4745 4746 4747 4748 4749 4750	0. 000120 0. 000085 0. 000321 0. 000085 0. 000085 0. 000211 0. 000243 0. 000253
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752	0. 000120 0. 000085 0. 000321 0. 000085 0. 0000211 0. 000243 0. 000253 0. 000110 0. 000074
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753	0. 000120 0. 000085 0. 000321 0. 000085 0. 0000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752	0. 000120 0. 000085 0. 000321 0. 000085 0. 0000211 0. 000243 0. 000253 0. 000110 0. 000074
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756	0. 000120 0. 000085 0. 000321 0. 000085 0. 000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074 0. 000107 0. 000074 0. 000074
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757	0. 000120 0. 000085 0. 000321 0. 000085 0. 000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756	0. 000120 0. 000085 0. 000321 0. 000085 0. 000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074 0. 000107 0. 000074 0. 000074
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757 4758 4759 4760	0. 000120 0. 000085 0. 000321 0. 000085 0. 000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000106 0. 000112 0. 000486
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757 4758 4759 4760 4761	0. 000120 0. 000085 0. 000321 0. 000085 0. 0000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757 4758 4759 4760 4761 4762 4763	0. 000120 0. 000085 0. 000085 0. 000085 0. 000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000106 0. 000112 0. 000486 0. 000074 0. 000074 0. 000074 0. 000074
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757 4758 4759 4760 4761 4762 4763 4764	0. 000120 0. 000085 0. 000321 0. 000085 0. 000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000106 0. 000112 0. 000412 0. 000074 0. 000074 0. 000074 0. 000074
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757 4758 4759 4760 4761 4762 4763	0. 000120 0. 000085 0. 000085 0. 000085 0. 000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000106 0. 000112 0. 000486 0. 000074 0. 000074 0. 000074 0. 000074
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757 4758 4759 4760 4761 4762 4763 4764 4765 4766 4767	0. 000120 0. 000085 0. 000321 0. 000085 0. 0000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000106 0. 000112 0. 000486 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000091 0. 000091
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757 4758 4759 4760 4761 4762 4763 4764 4765 4766 4767 4768	0. 000120 0. 000085 0. 000321 0. 000085 0. 000085 0. 000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000091 0. 000091 0. 0000209
4743 4744 4745 4746 4747 4748 4749 4750 4751 4752 4753 4754 4755 4756 4757 4758 4759 4760 4761 4762 4763 4764 4765 4766 4767	0. 000120 0. 000085 0. 000321 0. 000085 0. 0000211 0. 000243 0. 000253 0. 000110 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000106 0. 000112 0. 000486 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000074 0. 000091 0. 000091

Length: 4772, dtype: float64

<class 'pandas.core.series.Series'>

In [28]:

```
from pyspark.mllib.linalg.distributed import *
from pyspark.mllib.linalg import *
from pyspark import SparkContext
from pyspark.sql import SparkSession

import numpy as np
from pyspark.sql import Row

#sc = SparkContext("local", "PageRank")

a=powered
b=[[a[i]] for i in range(len(a))]
print(b)
```

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In []:

```
rdd = sc.parallelize(b)
print(rdd.take(10))
#rdd = spark.createDataFrame(rdd)

rdd.cache()
cordmat = CoordinateMatrix(rdd.map(lambda x: MatrixEntry(*x)))
print(cordmat.entries.collect())

#set 4x4
blockmat = cordmat.toBlockMatrix(4,4) #dimen. of blockmatrix
blockmat.cache()
print(blockmat.blocks.collect())

rdd1 = blockmat.blocks.map(lambda x: (x[0], x[1].toArray()))
print(rdd1.collect())
```

In $\lceil \ \rceil$: