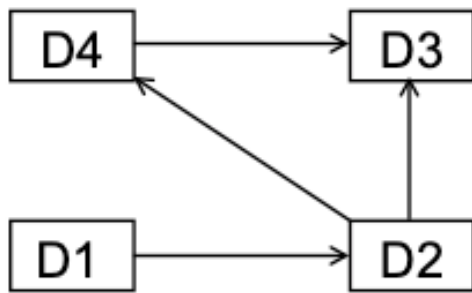**INFORMATION RETRIEVAL – SHORT EXERCISES IV – HITS, RELEVANCE FEEDBACK AND SPELLING CORRECTION**

I. Consider the web graph presented below to the left. It involves four pages D1-D4 and four links. Fill in the adjacency matrix L given to the right.

0	1	0	0
0	0	1	1
0	0	0	0
0	0	1	0

The principal eigenvector of LL^T is [0, 1.618, 0, 1] and the principal eigenvector of $L^T L$ is [0, 0, 1.618, 1].

What is $h(D_4)$? Answer: .1.

The page with the greatest authority score is: D3

max

II. Compute the Levenshtein distance for "LEGIA" and "LECHIA".

		L	E	C	H	I	A
	0	1	2	3	4	5	6
L	1	0	1	2	3	4	5
E	2	1	0	1	2	3	4
G	3	2	1	1	2	3	4
I	4	3	2	2	2	2	3
A	5	4	3	3	3	3	**2**