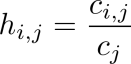
Q1:

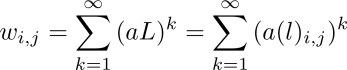
(a)

(i) The entry is  Given a source time window T1 and a previous target time window T2, When there is some article published in i during T1 that cites an article published in j during T2, there is an edge from journal i to journal j. The edge is weighted with the number ci,j of such citations from i to j.

(ii)

|  |  |  |  |
| --- | --- | --- | --- |
| Iteration | 0 | 1 | 2 |
| IF(A) | 0.25 | wpsoffice | wpsoffice |
| IF(B) | 0.25 | wpsoffice | wpsoffice |
| IF(C) | 0.25 | wpsoffice | wpsoffice |
| IF(D) | 0.25 | wpsoffice | wpsoffice |

(b)

(i) The entry is , which is the weighted number of arbitrary paths from *i* to *j*.

L is (blank cell is 0):

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F | G | H | I | L | M |
| A |  |  |  |  |  |  |  |  |  |  |  |
| B |  |  | 1 |  |  |  |  |  |  |  |  |
| C |  | 1 |  |  |  |  |  |  |  |  |  |
| D | 1 | 1 |  |  |  |  |  |  |  |  |  |
| E |  | 1 |  | 1 | 1 |  |  |  |  |  |  |
| F |  | 1 |  |  | 1 |  |  |  |  |  |  |
| G |  | 1 |  |  | 1 |  |  |  |  |  |  |
| H |  | 1 |  |  | 1 |  |  |  |  |  |  |
| I |  | 1 |  |  | 1 |  |  |  |  |  |  |
| L |  |  |  |  | 1 |  |  |  |  |  |  |
| M |  |  |  |  | 1 |  |  |  |  |  |  |

(c)