

Rebecca Dias

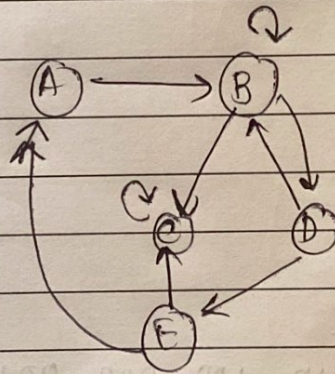
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Q3] A]

① A value assigned to a web page as a measure of its popularity or importance, used to determine the order in which search engine results are presented.

② Page rank works by counting the number of and quality of links to a page to determine a rough estimate of how important the website is.



Stochastic matrix

	A	B	C	D	E
A	0	0	0	0	1/2
B	1	1/3	0	1/2	0
C	0	1/3	1	0	1/2
D	0	1/3	0	0	0
E	0	0	0	1/2	0

Equation:-

$$r_a = r_e/2$$

$$r_b = r_a + r_b/3 + r_d/2$$

$$r_d = r_b/3$$

$$r_c = r_d/2$$

$$r_e = r_b/2 + r_c + r_e/2$$

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Power Iteration :-

r_0	r_1	r_2
$\begin{bmatrix} 1/5 \\ 1/5 \\ 1/5 \\ 1/5 \\ 1/5 \end{bmatrix}$	$\begin{bmatrix} 0.1 \\ 0.367 \\ 0.367 \\ 0.066 \\ 1 \end{bmatrix}$	$\begin{bmatrix} 0.05 \\ 0.255 \\ 0.539 \\ 0.122 \\ 0.033 \end{bmatrix}$