

START

For each node i  
j := neighbors(i)

Neutralization Factor  
Check  
(i ↔ j)

Compute PageRank(i)  
 $PR'(i) := \text{Weighted Average} \times PR(j)$

Repeat the steps until i := N

$PR(i) := PR'(i) + NF$

For each node j

Find Rank of each layer, L

Repeat the steps until j := N

$L := (1/N) \times [\text{neighbor}(j) \times PR'(j)]$

Find the probability to walk,  
jump from one layer to next layer

$(1-d) \times [\text{Link between layers } (i, j)] \times [L \times PR(j)]$

m-PR := ADD to PR(i)

STOP

