$p^0 \leftarrow \{p_i^0\}$ $for\ i \in indices\ of\ W$

$$p_i^0 = \begin{cases} \frac{1}{N}, & \text{if} i \in QIndices \\ 0, & \text{otherwise} \end{cases}$$

$Columnnormalize\ W$

while $|p^{t+1} - p^t| \leq threshold$ ***and*** $iter \leq iter\_cutoff$ **do**

| $p^{t+1} = (1-r)Wp^t + rp^0$

end

$pfinal = p^{t+1}$