

COSINESCORE(q)

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1  INITIALIZE( $Scores[d \in D]$ )
2  INITIALIZE( $Magnitude[d \in D]$ )
3  for each term ( $t \in q$ )
4      do  $p \leftarrow \text{FETCHPOSTINGSLIST}(t)$ 
5           $df_t \leftarrow \text{GETCORPUSWIDESTATS}(p)$ 
6           $\alpha_{t,q} \leftarrow \text{WEIGHTINQUERY}(t, q, df_t)$ 
7          for each  $\{d, tf_{t,d}\} \in p$ 
8              do  $Scores[d] += \alpha_{t,q} \cdot \text{WEIGHTINDOCUMENT}(t, q, df_t)$ 
9  for  $d \in Scores$ 
10      do  $\text{NORMALIZE}(Scores[d], Magnitude[d])$ 
11  return top  $K \in Scores$ 
```