An Example: Ranking Based on TF Sum

$$f(d,q)=g(t_1,d,q)+...+g(t_k,d,q)$$

where $g(t_i,d,q) = c(t_i,d)$

Query = "info security"

Info: (d1, 3), (d2, 4), (d3, 1), (d4, 5) **Security**: (d2, 3), (d4,1), (d5, 3)

$\inf \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Accumulators: d1		d2	d3	d4	d5
info $\begin{cases} (d1,3) => 3 & 0 & 0 & 0 \\ (d2,4) => 3 & 4 & 0 & 0 \\ (d3,1) => 3 & 4 & 1 & 0 & 0 \\ (d4,5) => 3 & 4 & 1 & 5 & 0 \\ (d4,5) => 3 & 7 & 1 & 5 & 0 \\ (d4,1) => 3 & 7 & 1 & 6 & 0 \\ (d5,3) => 3 & 7 & 1 & 6 & 3 \end{cases}$ security			•	_	_	0
info $\begin{cases} (d2,4) => 3 & 4 & 0 & 0 & 0 \\ (d3,1) => 3 & 4 & 1 & 0 & 0 \\ (d4,5) => 3 & 4 & 1 & 5 & 0 \\ (d2,3) => 3 & 7 & 1 & 5 & 0 \\ (d4,1) => 3 & 7 & 1 & 6 & 0 \\ (d5,3) => 3 & 7 & 1 & 6 & 3 \end{cases}$ security	info <	(d1,3) => 3	0	0	0	0
$(d3,1) \Rightarrow 3 \qquad 4 \qquad 1 \qquad 0 \qquad 0$ $(d4,5) \Rightarrow 3 \qquad 4 \qquad 1 \qquad 5 \qquad 0$ $(d2,3) \Rightarrow 3 \qquad 7 \qquad 1 \qquad 5 \qquad 0$ $(d4,1) \Rightarrow 3 \qquad 7 \qquad 1 \qquad 6 \qquad 0$ $(d5,3) \Rightarrow 3 \qquad 7 \qquad 1 \qquad 6 \qquad 3$		(d2,4) = > 3	4	0	0	0
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		(d3,1) => 3	4	1	0	0
security $\begin{cases} (d2,3) => 3 & 7 & 1 & 5 & 0 \\ (d4,1) => 3 & 7 & 1 & 6 & 0 \\ (d5,3) => 3 & 7 & 1 & 6 & 3 \end{cases}$		(d4,5) => 3	4	1	5	0
security $\begin{cases} (d4,1) => 3 & 7 & 1 & 6 & 0 \\ (d5,3) => 3 & 7 & 1 & 6 & 3 \end{cases}$	security ~	(d2,3) => 3	7	1	5	0
(d5,3) => 3 7 1 6 3		d(d4,1) => 3	7	1	6	0
		(d5,3) => 3	7	1	6	3