

	a	b	c	e
1	×		×	
2		×		×
3		×	×	×

$k = 0$:

step 1		step 2
X	$X.s$	$X \in \mathcal{K}_0?$
\emptyset	1	yes

$k = 1$:

steps 4+5		step 7	step 9
X	$X.p.s$	$X.s$	$X \in \mathcal{K}_1?$
$\{a\}$	1	1/3	yes
$\{b\}$	1	2/3	yes
$\{c\}$	1	2/3	yes
$\{e\}$	1	2/3	yes

Step 8 returns: $\emptyset.\text{closure} \leftarrow \emptyset$

$k = 2$:

step 12		step 7	step 9
X	$X.p.s$	$X.s$	$X \in \mathcal{K}_2?$
$\{a, b\}$	1/3	0	yes
$\{a, c\}$	1/3	1/3	no
$\{a, e\}$	1/3	0	yes
$\{b, c\}$	2/3	1/3	yes
$\{b, e\}$	2/3	2/3	no
$\{c, e\}$	2/3	1/3	yes

Step 8 returns:

$\{a\}.\text{closure} \leftarrow \{a, c\}$

$\{b\}.\text{closure} \leftarrow \{b, e\}$

$\{c\}.\text{closure} \leftarrow \{c\}$

$\{e\}.\text{closure} \leftarrow \{b, e\}$

$k = 3$:

Since the 2-subset $\{b, e\}$ of $\{a, b, e\}$ is not in \mathcal{K}_2 , step 12 returns the empty set.

Step 8 returns:

$\{a, b\}.\text{closure} \leftarrow \{a, b, c, e\}$

$\{a, e\}.\text{closure} \leftarrow \{a, b, c, e\}$

$\{b, c\}.\text{closure} \leftarrow \{b, c, e\}$

$\{c, e\}.\text{closure} \leftarrow \{b, c, e\}$

Since \mathcal{K}_3 is empty the loop is exited in step 10.

Finally the algorithm collects all concept intents (step 14):

$\emptyset, \{c\}, \{a, c\}, \{b, e\}, \{b, c, e\}, \{a, b, c, e\}$