Datos

Faros_de_Xenon	Alarma	Techo_Solar	Navegador	Bluetooth	Control_de_Velocidad
1	0	0	1	1	1
1	0	1	0	1	1
1	0	0	1	0	1
1	0	1	1	1	0
1	0	0	0	1	1
0	0	0	1	0	0
1	0	0	0	1	1
0	1	1	0	0	0

Soporte >= 0.5 Confianza >= 0.8

Resultados obtenidos

```
[OK] {Control_de_Velocidad} => {Bluetooth}
[OK] {Bluetooth} => {Control_de_Velocidad}
[OK] {Control_de_Velocidad}=> {Faros_de_Xenon}
[OK] {Faros_de_Xenon}=> {Control_de_Velocidad}
[OK] {Bluetooth}=> {Faros_de_Xenon}
[OK] {Faros_de_Xenon}=> {Bluetooth}
[OK] {Bluetooth,Control_de_Velocidad} => {Faros_de_Xenon}
[OK] {Faros_de_Xenon,Control_de_Velocidad} => {Bluetooth}
[OK] {Faros_de_Xenon,Bluetooth} => {Control_de_Velocidad}

[NO] {Control_de_Velocidad} =>{Faros_de_Xenon,Bluetooth}
[NO] {Bluetooth} =>{Faros_de_Xenon,Control_de_Velocidad}
```

Los datos con [OK] fueron obtenidos por apriori, por mi implementación y a
mano, los datos con NO solo por mi implementación y a mano.

Replicar resultados

```
source("calapriori.R")
source("f_apriori.R")
toTable(f_apriori(readAprioriFile("datos2.txt"),0.5,0.8))
calapriori(readAprioriFile("datos2.txt"),0.5,0.8)
```

$\begin{cases} F = \text{Fares de xeon} \\ A = \text{Alarma} \\ T = \text{Techo solar} \\ N = \text{Navegador} \\ B = \text{Blue tooth} \\ C = \text{Control de velocidad} \end{cases}$

$S(\langle F \rangle) = 6/8 \checkmark$

$S(\langle A \rangle) = 1/8$

$S(\langle T \rangle) = 3/8$

$S(\langle N \rangle) = 4/8 \checkmark$

$S(\langle B \rangle) = 5/8 \checkmark$

$S(\langle C \rangle) = 5/8 \checkmark$

$\boxed{S(N) \geq 0'5}$

1 $\langle F, N, B, C \rangle$

2 $\langle F, T, B, C \rangle$

3 $\langle F, N, C \rangle$

4 $\langle F, T, N, B \rangle$

5 $\langle F, B, C \rangle$

6 $\langle N \rangle$

7 $\langle F, B, C \rangle$

8 $\langle A, T \rangle$

$S(\langle F, N \rangle) = 3/8$

$S(\langle F, B \rangle) = 5/8 \checkmark$

$S(\langle F, C \rangle) = 5/8 \checkmark$

$S(\langle N, B \rangle) = 2/8$

$S(\langle N, C \rangle) = 2/8$

$S(\langle B, C \rangle) = 4/8 \checkmark$

$S(\langle F, B, C \rangle) = 4/8 \checkmark$

$\cancel{S(\langle F, B, N \rangle) =}$

$\cancel{S(\langle B, C, N \rangle) =}$

$C(\langle F \rangle \rightarrow \langle N \rangle) = 3/6$

$C(\langle N \rangle \rightarrow \langle F \rangle) = 3/4$

$C(\langle F \rangle \rightarrow \langle B \rangle) = 5/6 \checkmark$

$C(\langle B \rangle \rightarrow \langle F \rangle) = 5/5 \checkmark$

$C(\langle F \rangle \rightarrow \langle C \rangle) = 5/6 \checkmark$

$C(\langle C \rangle \rightarrow \langle F \rangle) = 5/5 \checkmark$

$C(\langle N \rangle \rightarrow \langle B \rangle) = 2/4$

$C(\langle B \rangle \rightarrow \langle N \rangle) = 2/5$

$C(\langle N \rangle \rightarrow \langle C \rangle) = 2/4$

$C(\langle C \rangle \rightarrow \langle N \rangle) = 2/5$

$C(\langle B \rangle \rightarrow \langle C \rangle) = 4/5 \checkmark$

$C(\langle C \rangle \rightarrow \langle B \rangle) = 4/5 \checkmark$

$C(\langle F \rangle \rightarrow \langle B, C \rangle) = 4/6$

$C(\langle B, C \rangle \rightarrow \langle F \rangle) = 4/4 \checkmark$

$C(\langle N \rangle \rightarrow \langle F, B \rangle) = 2/4$

$C(\langle F, B \rangle \rightarrow \langle N \rangle) = 2/5$

$C(\langle N \rangle \rightarrow \langle F, C \rangle) = 2/4$

$C(\langle F, C \rangle \rightarrow \langle N \rangle) = 2/5$

$C(\langle N \rangle \rightarrow \langle B, C \rangle) = 1/4$

$C(\langle B, C \rangle \rightarrow \langle N \rangle) = 1/4$

$C(\langle B \rangle \rightarrow \langle F, C \rangle) = 4/5 \checkmark \ \bullet$

$C(\langle F, C \rangle \rightarrow \langle B \rangle) = 4/5 \checkmark$

$C(\langle C \rangle \rightarrow \langle F, B \rangle) = 4/5 \checkmark \ \bullet$

$C(\langle F, B \rangle \rightarrow \langle C \rangle) = 4/5 \checkmark$

$\boxed{C(N) \geq 0'8}$

Figure 1: Manual_apriori

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