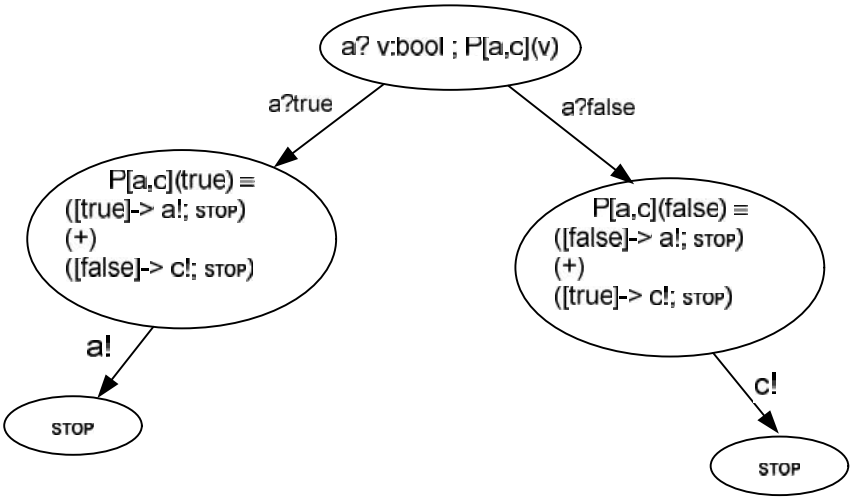
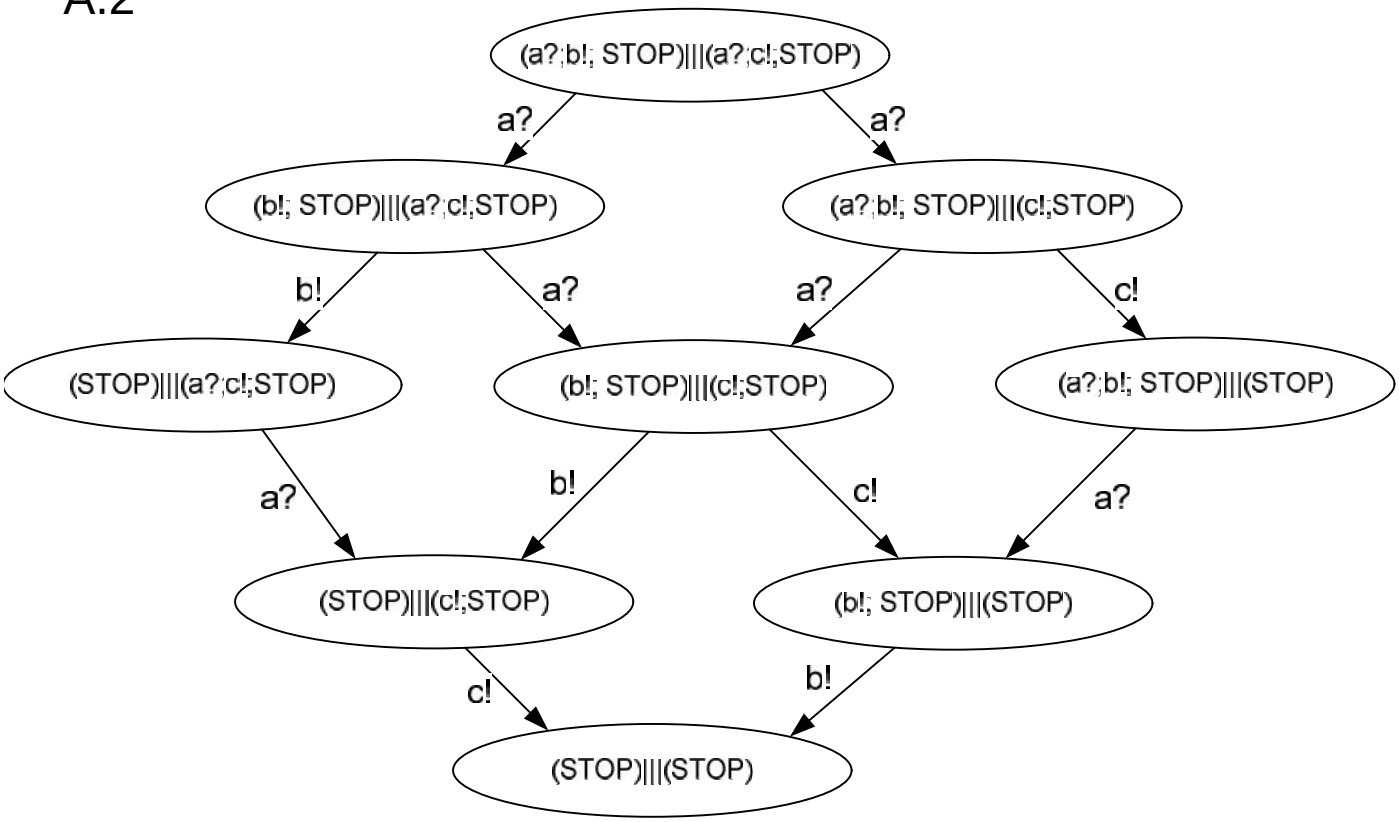
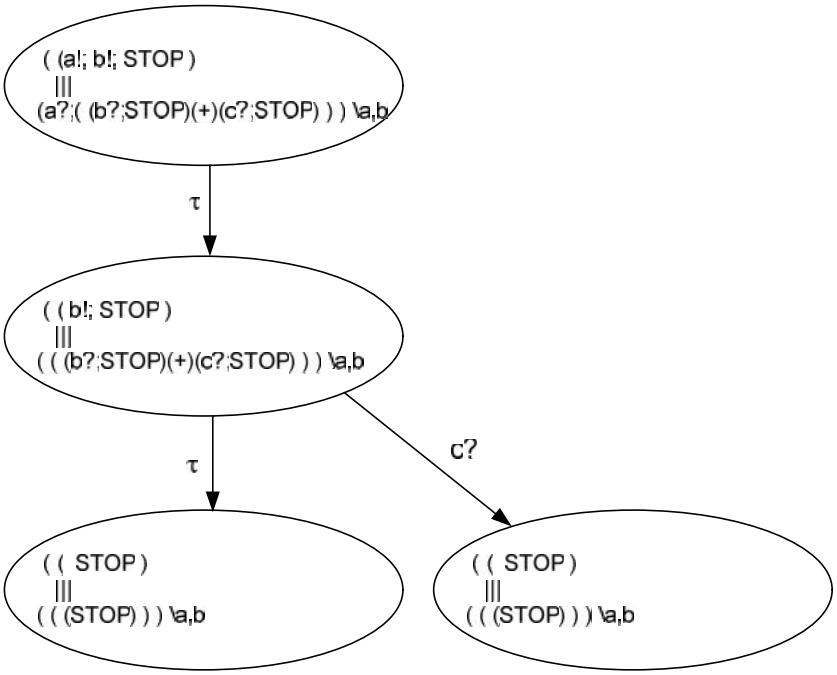
A.1


a? v:bool ; P[a,c](v)
a?true
a?false
P[a,c](true) ≡
([true]-> a!; STOP)
(+)
([false]-> c!; STOP)
P[a,c](false) ≡
([false]-> a!; STOP)
(+)
([true]-> c!; STOP)
a!
c!
STOP
STOP

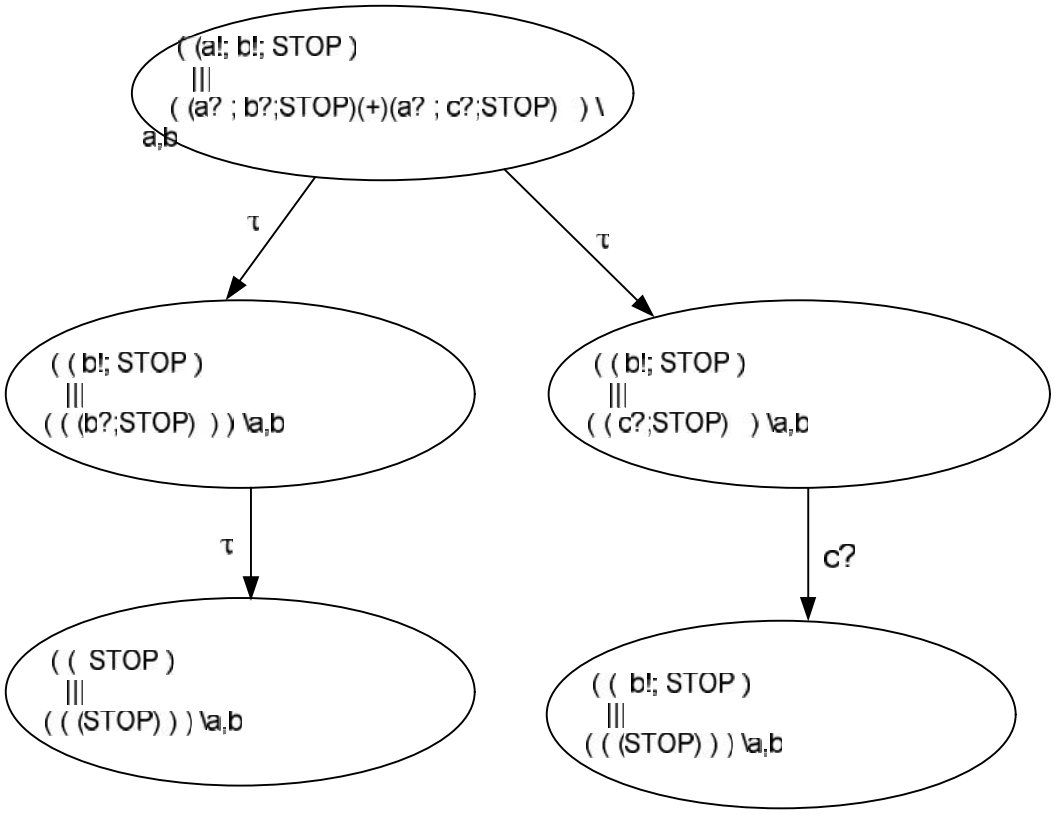
A.2


(a?;b!; STOP)|||(a?;c!;STOP)
a?
a?
(b!; STOP)|||(a?;c!;STOP)
(a?;b!; STOP)|||(c!;STOP)
b!
a?
a?
c!
(STOP)|||(a?;c!;STOP)
(b!; STOP)|||(c!;STOP)
(a?;b!; STOP)|||(STOP)
a?
b!
c!
a?
(STOP)|||(c!;STOP)
(b!; STOP)|||(STOP)
c!
b!
(STOP)|||(STOP)

A.3


((a!; b!; STOP)
|||
(a?;((b?;STOP)(+)(c?;STOP))) \a,b
τ
((b!; STOP)
|||
(((b?;STOP)(+)(c?;STOP))) \a,b
τ
c?
((STOP)
|||
(((STOP))) \a,b
((STOP)
|||
(((STOP))) \a,b

A.4


((a!; b!; STOP)
|||
((a? ; b?;STOP)(+)(a? ; c?;STOP)) \
a,b
τ
τ
((b!; STOP)
|||
(((b?;STOP))) \a,b
((b!; STOP)
|||
((c?;STOP)) \a,b
τ
c?
((STOP)
|||
(((STOP))) \a,b
((b!; STOP)
|||
(((STOP))) \a,b

B.1

```
Process Machine[C, T, cafe, the] :=
C? ; cafe! ; MachineC[C, T, cafe, the]
(+)
T? : the! ; MachineT[C, T, cafe, the]

where
Process MachineC[C, T, cafe, the] :=
C? ; cafe! ; STOP
(+)
T? : the! ; MachineT [C, T, cafe, the]
Endproc

Process MachineT[C, T, cafe, the] :=
C? ; cafe! ; MachineC [C, T, cafe, the]
(+)
T? : the! ; STOP
Endproc

Endproc
```

B.2

```
Process Machine[C, T, cafe, the] :=
C? ; cafe! ; MachineC[C, T, cafe, the]
(+)
T? : the! ; MachineT[C, T, cafe, the]

where
Process MachineC[C, T, cafe, the] :=
C? ; cafe! ; Machine[T, C, cafe, the]
(+)
T? : the! ; Machine [C, T, cafe, the]
Endproc

Process MachineT[C, T, cafe, the] :=
C? ; cafe! ; Machine [C, T, cafe, the]
(+)
T? : the! ; Machine[T, C, cafe, the]
Endproc

Endproc
```

B.3

Process Machine[C, T, cafe, the] :=
C? ; cafe! ; MachineC[C, T, cafe, the]
(+)
T? ; the! ; MachineT[C, T, cafe, the]

where
Process MachineC[C, T, cafe, the] :=
C? ; cafe! ; MachineND[C, T, cafe, the]
(+)
T? ; the! ; Machine [C, T, cafe, the]
Endproc

Process MachineT[C, T, cafe, the] :=
C? ; cafe! ; Machine [C, T, cafe, the]
(+)
T? ; the! ; MachineND[C, T, cafe, the]
Endproc

Process MachineND[C, T, cafe, the] :=
C? ; livre_C_ou_T[C, T, cafe, the]
(+)
T? ; livre_C_ou_T[C, T, cafe, the]
Endproc

Process livre_C_ou_T[C, T, cafe, the] :=
(τ ; cafe! ; MachineND[C, T, cafe, the])
(+)
(τ ; the! ; MachineND[C, T, cafe, the])
Endproc

Endproc