

```
dhcp-c101a4a2:MR liliana$ python3.5 specGenerator.py 6 1
*****
    Primitive histories identification
*****
Histories identified in 0.7250070571899414 seconds
hypothesis h1 is supported by the following primitive histories
'pr_happens(swipeCard(alice,nfc1),0,tr1)'
'pr_happens(cctvAccess(alice,r01,cctv1),0,tr1)'
'pr_happens(sys_Login(alice,m1),1,tr1)'
'pr_happens(sys_Mount(usb1,m1),2,tr1)'
'pr_happens(sys_copy(alice,doc,m1),3,tr1)']
*****
    Spec Verification
*****
Preservation histories not covered identified in 1.122326135635376 seconds
The following preservation histories are not covered
'op_happens(preserve(sys_copy(bob,doc,m1),3),3,tr1)'
'op_happens(preserve(sys_Mount(usb1,m1),2),2,tr1)'
'op_happens(preserve(sys_Login(bob,m1),1),1,tr1)'
'op_happens(preserve(cctvAccess(alice,r01,cctv1),0),0,tr1)'
'op_happens(preserve(swipeCard(alice,nfc1),0),0,tr1)'
'op_happens(receive(sys_copy(bob,doc,m1),3),3,tr1)'
'op_happens(receive(sys_Mount(usb1,m1),2),2,tr1)'
'op_happens(receive(sys_Login(bob,m1),1),1,tr1)'
'op_happens(receive(cctvAccess(alice,r01,cctv1),0),0,tr1)'
'op_happens(receive(swipeCard(alice,nfc1),0),0,tr1)']
*****
    Spec Generation
*****
Please, make sure your provided positive histories
Confirm that you provided examples of positive and (possibly negative) histories
{'tr2'}
```

Potential positive history

Potential log

```
Pres Traces:

[['op_happens(preserve(swipeCard(alice,nfc1),0),0,tr1)', 'op_happens(preserve(cctvAccess(alice,r01,cctv1),0),0,tr1)', 'op_happens(preserve(sys_Login(alice,m1),1),1,tr1)', 'op_happens(preserve(sys_Mount(usb1,m1),2),2,tr1)', 'op_happens(preserve(sys_copy(alice,doc,m1),3),3,tr1)']]

Negative Pres Traces:

[['op_happens(preserve(swipeCard(alice,nfc1),0),0,tr2)', 'op_happens(preserve(cctvAccess(alice,r01,cctv1),0),0,tr2)', 'op_happens(preserve(sys_Login(alice,m1),1),1,tr2)', 'op_happens(preserve(sys_copy(alice,doc,m1),2),2,tr2)']]
{'sys_copy', 'sys_Login', 'cctvAccess', 'swipeCard', 'sys_Mount'}
```

Specification

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Specification:

rtrig(preserve(swipeCard(V1,V2),V3),V3,V4):-happens(receive(swipeCard(V1,V2),V3),V3,V4),emp(V1),read(V2),clock(V3),trace(V4).

rtrig(preserve(sys_Login(V1,V2),V3),V3,V4):-happens(receive(sys_Login(V1,V2),V3),V3,V4),emp(V1),comp(V2),clock(V3),trace(V4).

rtrig(preserve(sys_copy(V1,V2,V3),V4),V4,V5):-happens_prev(preserve(sys_Mount(V6,V3),V4),V4,V5),happens(receive(sys_copy(V1,V2,V3),V4),V4,V5),st(V6),comp(V3),clock(V4),trace(V5),emp(V1),fi(V2).

rtrig(preserve(cctvAccess(V1,V2,V3),V4),V4,V5):-happens(receive(cctvAccess(V1,V2,V3),V4),V4,V5),emp(V1),loc(V2),cam(V3),clock(V4),trace(V5).

rtrig(preserve(sys_Mount(V1,V2),V3),V3,V4):-happens(receive(sys_Mount(V1,V2),V3),V3,V4),st(V1),comp(V2),clock(V3),trace(V4).
```