Topis in Carennary (SPL \$ 2001)

(a) Init (A,B) outputs a message 3m, A3ph(B)
with a new name m, and then inputs
a message 3m3phb(A).

Resp(B) inputs a message of the form
3m, A3phb(B), and then articles a
the message 3m3phb(A).

Events of Fuil-(A,B):

ontrarm (n, A) for ma hame in Im) pulled (m) Sm, A) pulled (B)

a permittent conduction.

in (m) pub(A)

m) pub(A)

m) and pub(A)

for m a name

Eventy Resp(B): Rup (B) {m,A}pus(B) mi 3m, Alpuber) for m, A name. out 2m7pu4(A) ant 3 m) pus (A) ( for m, A names. = Spy 1 /1 Spy // Spy // Spy 4 Spy = n'4, m'42 out (4, 42) OM, Mz.

messages M., M..

(b)

Spyz = ni(Y, Yz) at Y, at Y. mix mix aut 343 pub(x) m. Priv(x). m. {Y} pub(x) and 4 (c) Q(tr-1) is false because & to as a precordition of the highest event e. One message {m?pub(A) must prenoish lave see atput and so doe a tr-1.

Q(to) is true because is order for the input event or to occur A as the thicker must have premiously performed as at new n. ? n., A)pub(B) event. Herce in of to because in is a new

ei must have the form resp: j: outlan publa Prome ricles Del ( 3 m 3 ps/ck)