	Sound?	Complete?
$Cx = \{e,d\}$	Not sounds as we only get e	Incomplete as it doesn't give
	and d	all atoms
$Cy = \{a,b,c,d,e,f,g\}$	On solving we only get	Complete as we can derive all
	{e,d,c,f} so its unsound	atoms

Q2

{}

{down s1, up s2, up s3, ok cb1, ok cb2, live outside}. (given)

{down_s1, up_s2, up_s3, ok_cb1, ok_cb2, live_outside, live_w5} (from live_outside)

{down_s1, up_s2, up_s3, ok_cb1, ok_cb2, live_outside, live_w5, live_w6} (from live_w5 ^ ok_cb2)

{down_s1, up_s2, up_s3, ok_cb1, ok_cb2, live_outside, live_w5, live_w6, live_p2} (from live_w6)

{down_s1, up_s2, up_s3, ok_cb1, ok_cb2, live_outside, live_w5, live_w6, live_p2, live_w3} (from live_w5 ^ ok_cb1)

{down_s1, up_s2, up_s3, ok_cb1, ok_cb2, live_outside, live_w5, live_w6, live_p2, live_w3, live_p1} (from live_w3)

{down_s1, up_s2, up_s3, ok_cb1, ok_cb2, live_outside, live_w5, live_w6, live_p2, live_w3, live_p1, live_w4} (from live_w3 ^ up_s3)

{down_s1, up_s2, up_s3, ok_cb1, ok_cb2, live_outside, live_w5, live_w6, live_p2, live_w3, live_p1, live_w4, live_l2} (from live_w4)

{down_s1, up_s2, up_s3, ok_cb1, ok_cb2, live_outside, live_w5, live_w6, live_p2, live_w3, live_p1, live_w4, live_l2, live_w2} (from live_w3 ^ down_s1)

{down_s1, up_s2, up_s3, ok_cb1, ok_cb2, live_outside, live_w5, live_w6, live_p2, live_w3, live_p1, live_w4, live_l2, live_w2} (from live_w3 ^ down_s1)