$$p_3 = F$$
$$p_4 = F$$
$$p_1 = test$$
$$p_2 = \overline{p_1}$$

BB1

$$p_1?l = x$$
$$p_1?p_3 = test$$
$$p1?p_4 = \overline{p_3}$$

BB2

$$p_3?s = 3$$

BB3

$$p_4?s = 4$$

BB4

$$p_1?r = s$$

BB5

$$p_2?r = 2$$

BB6