$$egin{aligned} p_3 &= F \ p_4 &= F \ p_1 &= t \, e \, s \, t \ p_2 &= \overline{p_1} \end{aligned} egin{aligned} &= b_{BB1} \ p_1? \, l &= x \ p_1? \, p_3 &= t \, e \, s \, t \ p_1? \, p_4 &= \overline{p_3} \end{aligned} egin{aligned} &= b_{BB2} \ p_3? \, s &= 3 \end{aligned} egin{aligned} &= b_{BB4} \ p_1? \, r &= s \ p_2? \, r &= 2 \end{aligned} egin{aligned} &= b_{BB4} \ p_2? \, r &= 2 \end{aligned}$$