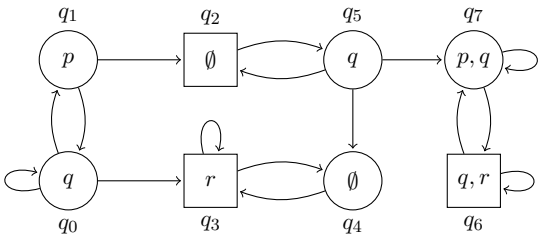
System Specification and Verification
- Seminar - Weeks 11 -

Spring 2026

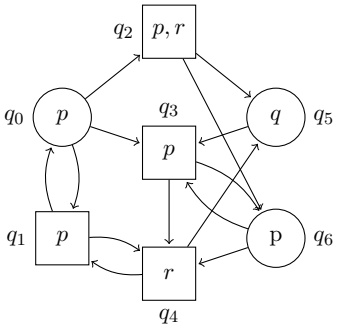
1. Let Agent 0 control circles in the arena below and Agent 1 control squares.



   Compute the states that satisfy the following formulas:

   (a) $\varphi_1 = \ll 0 \gg q\, \mathcal{U}(\ll 1 \gg Gr)$?

   (b) $\varphi_2 = \ll 0 \gg (X \ll 1 \gg (F(p \vee \neg r))$

   (c) $\varphi_3 = \ll 0 \gg Xp \vee q$

2. Let Agent 0 control circles in the arena below and Agent 1 control squares. Does the state q_0 satisfy the formula $\varphi = \ll 0 \gg p\, \mathcal{U}(\ll 1 \gg Xq)$?