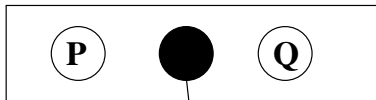
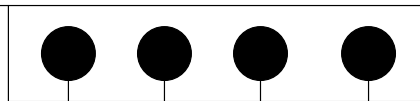


ABP

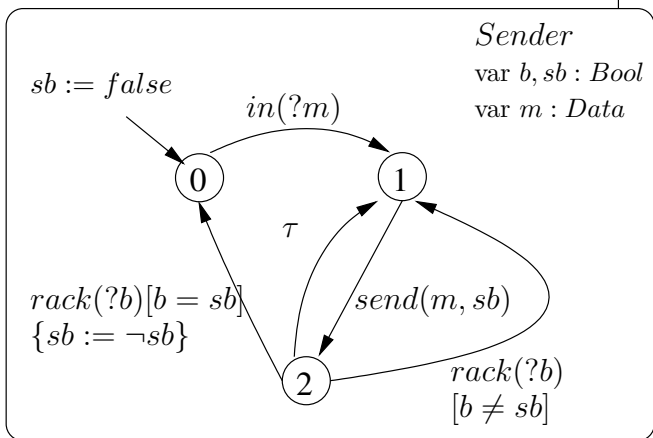


$$\begin{aligned}
 SV_{Transport} = & \\
 & \langle \text{send}(m), \text{in}(m), - \rangle \rightarrow \underline{\text{send}(m)} \\
 & \langle a, -, - \rangle \rightarrow a \ [a \neq \text{send}(m)] \\
 & \langle -, \text{out}(m), \text{recv}(m), - \rangle \rightarrow \underline{\text{recv}(m)} \\
 & \langle -, -, b, -, - \rangle \rightarrow b \ [b \neq \text{recv}(m)]
 \end{aligned}$$

Protocol



$SV_{ABP} =$

$$\begin{aligned}
 & \langle \text{in}(m), -, -, - \rangle \rightarrow \text{in}(m) \\
 & \langle \text{send}(m, b), \text{in}(m, b), -, - \rangle \rightarrow \underline{\text{send}(m, b)} \\
 & \langle -, \text{out}(m, b), -, \text{recv}(m, b) \rangle \rightarrow \underline{\text{recv}(m, b)} \\
 & \langle -, -, -, \text{out}(m) \rangle \rightarrow \text{out}(m) \\
 & \langle -, -, \text{in}(b), \text{sack}(b) \rangle \rightarrow \underline{\text{sack}(b)} \\
 & \langle \text{rack}(b), -, \text{out}(b), - \rangle \rightarrow \underline{\text{rack}(b)}
 \end{aligned}$$


Perfect  
Medium

Perfect  
Medium

