

	MODULE <i>semaphore</i>	
VARIABLE <i>color</i> <i>TypeOK</i> \triangleq <i>color</i> \in { "red", "green", "yellow" } <i>Init</i> \triangleq <i>color</i> = "red" <i>TurnGreen</i> \triangleq \wedge <i>color</i> = "red" \wedge <i>color'</i> = "green" <i>TurnYellow</i> \triangleq \wedge <i>color</i> = "green" \wedge <i>color'</i> = "yellow" <i>TurnRed</i> \triangleq \wedge <i>color</i> = "yellow" \wedge <i>color'</i> = "red" <i>Next</i> \triangleq \vee <i>TurnGreen</i> \vee <i>TurnYellow</i> \vee <i>TurnRed</i>		