function $PDR(\text{model } M,\ p \in AP)$

if $S_0 \wedge \neg p$ is SAT **return** "$M \not\models \mathbf{AG}\, p$";

$F_0 := S_0$; $k := 0$;

while *true* **do**

$extendFrontier(M,k)$

$propagateClauses(M,k)$

if $F_i = F_{i+1}$ for some i **then return** "$M \models \mathbf{AG}\, p$";

$k := k+1$

end while

end function