```
procedure CraigReachability \pmod{M}, \ p \in AP)

if S_0 \wedge \neg p が充足可能 then return "M \nvDash \mathbf{AG}p";

k := 1;

\mathcal{Q} := S_0;

while true do

A := \mathcal{Q}(s_0) \wedge R(s_0, s_1);
```

 $B := \bigwedge_{i=1}^{k-1} R(s_i, s_{i+1}) \wedge \bigvee_{i=1}^{k} \neg p(s_i);$

if $Q = S_0$ then return " $M \nvDash \mathbf{AG}p$ ";

if $I \subseteq \mathcal{Q}$ then return " $M \models \mathbf{AG}p$ ";

if $A \wedge B$ が充足可能 then

k を増加させる:

 $\mathcal{Q}:=S_0$:

 $\mathcal{Q} := \mathcal{Q} \cup I$:

else