

$win(a) :- move(a,b), \neg win(b).$
 $win(a) :- move(a,f), \neg win(f).$
 $win(b) :- move(b,c), \neg win(c).$
 $win(b) :- \quad \quad \quad \neg win(g).$
 $win(b) :- \quad \quad \quad \neg win(e).$
 $win(c) :- \quad \quad \quad \neg win(d).$
 $win(c) :- \quad \quad \quad \neg win(l).$
 $win(d) :- \quad \quad \quad \neg win(e).$
 $win(e) :- \quad \quad \quad \neg win(a).$
 $win(f) :-$
 $win(g) :-$
 $win(g) :-$
 $win(h) :-$
 $win(i) :-$
 $win(j) :-$
 $win(k) :-$
 $win(l) :-$
 $win(m) :-$
 $win(n) :-$

no move, no satisfiable ground instance of rule.

$\neg win(h)$
 $\neg win(i)$
 $\neg win(m)$
 $\neg win(j)$
 $\neg win(d)$
 $\neg win(h)$

$win(a) :- move(a,b), \neg win(b).$
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 $win(f) :-$
 $win(g) :-$
 $win(g) :-$
 $win(h) :-$
 $win(i) :-$
 $win(j) :-$
 $win(k) :-$
 $win(l) :-$
 $win(m) :-$
 $win(n) :-$

$\neg win:$
 $P_0 = \{facts + \text{all } win(x) \text{ false}\}$
 $T_0^1 = \{ \text{all "move" facts from the game} \}$
 $T_0^2 = \{ \text{all "move"s} \}$
 $T_0^3 = \dots$
 $T_0^4 = \dots$
 $T_0^5 = \dots$

$\neg win(h)$
 $\neg win(i)$
 $\neg win(m)$
 $\neg win(j)$
 $\neg win(d)$
 $\neg win(h)$

Start:
 $\mathcal{I}_0 = \emptyset$
 $\mathcal{I}_0 = \{facts + \text{all } win(x) \text{ false}\}$
 all these ground instances

no move, no satisfiable ground instance of rule
 no ground instance
 no move
 finite, n have no chance to be in "win"
 \Rightarrow avoid this $\neg win(x)$

$\mathcal{K}_0 = \emptyset \rightarrow$ underestimate of true atoms
 overestimate of false atoms
 $p(\dots) :- q(\dots), \neg r(\dots)$ *time*
 \Rightarrow reduct $P_{\mathcal{K}_0}$ is a "big" program
 \Rightarrow denies relatively much $\hat{=}$ everything "possible"
 $\hat{=}$ overestimate of the true atoms $=: \mathcal{K}_1$
 (overestimate of "win")
 $P_{\mathcal{K}_1} \Rightarrow$ many needed literals are "false"
 \Rightarrow many rules are deleted
 "small" program \rightarrow small $T_{P_{\mathcal{K}_1}}^w(\phi)$
 \rightarrow Underestimate of true atoms
 "everything necessary"

