

function MINIMAX-DECISION(*state*) **returns** *an action*
 return $\arg \max_{a \in \text{ACTIONS}(s)} \text{MIN-VALUE}(\text{RESULT}(\text{state}, a))$

function MAX-VALUE(*state*) **returns** *a utility value*
 if TERMINAL-TEST(*state*) **then return** UTILITY(*state*)
 $v \leftarrow -\infty$
 for each *a* **in** ACTIONS(*state*) **do**
 $v \leftarrow \text{MAX}(v, \text{MIN-VALUE}(\text{RESULT}(\text{state}, a)))$
 return *v*

function MIN-VALUE(*state*) **returns** *a utility value*
 if TERMINAL-TEST(*state*) **then return** UTILITY(*state*)
 $v \leftarrow \infty$
 for each *a* **in** ACTIONS(*state*) **do**
 $v \leftarrow \text{MIN}(v, \text{MAX-VALUE}(\text{RESULT}(\text{state}, a)))$
 return *v*