RETURN v

Depth-Limited Minimax

depth

Heuristi

Limit DI -Minimax Friday, April 3, 2020 2:29 AM Heuristica function. Hvalue (s: state) approx of the minimax value of s (* Depth Limited Minimax *) max Choice (So, N) PROCEDURE maxChoice(s0 : state, depth : INT) FOREVERY a in actions(s0): besta := a that maximizes minValue(result(s0, a), depth) RETURN besta: PROCEDURE minValue(s : state, d : INT) IF term(s) THEN RETURN utility(s) IF depth = 0 THEN RETURN Hvalue(s) V := ∞ FOREACH a in actions(s) DO $v := MIN(v, \underline{maxValue}(\underline{result}(s, \underline{a}), \underline{d-1}))$ RETURN v PROCEDURE maxValue(s : state) /IF term(s) THEN RETURN utility(s) IF depth = 0 THEN RETURN Hvalue(s) V := -∞ FOREACH a in actions(s) DO v := MAX(v, minValue(result(s, a), d-1))