

function DT-AGENT(*percept*) **returns** an *action*

persistent: *belief_state*, probabilistic beliefs about the current state of the world

action, the agent's action

update *belief_state* based on *action* and *percept*

calculate outcome probabilities for actions,

given action descriptions and current *belief_state*

select *action* with highest expected utility

given probabilities of outcomes and utility information

return *action*