









Alpha-Beta pruning	
function ALPHA-BETA-SEARCH(<i>state</i>) returns an action inputs: <i>state</i> , current state in game	
$v \leftarrow MAX-VALUE(state, -\infty, +\infty)$ return the <i>action</i> in SUCCESSORS(<i>state</i>) with value v	
function MAX-VALUE(state, α, β) returns a utility value inputs: state, current state in game α , the value of the best alternative for MAX along the path to state β , the value of the best alternative for MIN along the path to state	_
if TERNIAL-TEST(state) then return UTILITY(state) $v \leftarrow -\infty$ for a, s in SUCCESSORS(state) do $v \leftarrow MAX(v, MIN-VALUE(s, \alpha, \beta))$ if $v \ge \beta$ then return v	
$\alpha \leftarrow MAX(\alpha, \forall)$ return v function MIN-VALUE(state, α, β) returns a utility value inputs : state, current state in game α , the value of the best alternative for MAX along the path to state β , the value of the best alternative for MAX along the path to state	-
if TERMINAL-TEST(<i>state</i>) then return UTILITY(<i>state</i>) $v \leftarrow +\infty$ for a, s in SUCCESSORS(<i>state</i>) do $v \leftarrow MIN(v, MAX-VALUE(s, \alpha, \beta))$ if $v \leq \alpha$ then return v $\beta \leftarrow MIN(\theta, v)$	
return v	







































