

```
function MONTE-CARLO-TREE-SEARCH(state) returns an action  
  tree  $\leftarrow$  NODE(state)  
  while IS-TIME-REMAINING() do  
    leaf  $\leftarrow$  SELECT(tree)  
    child  $\leftarrow$  EXPAND(leaf)  
    result  $\leftarrow$  SIMULATE(child)  
    BACK-PROPAGATE(result, child)  
  return the move in ACTIONS(state) whose node has highest number of playouts
```