```
function ExpectiMiniMax-Decision(state) returns an action
     return arg \max_{a \in Actions(s)} P(Result(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 Max(v, P-Value(Result(s, a)))
     return v
function Min-Value(state) returns a utility value
     if Terminal-Test(state) then return Utility(state)
     for each a in Actions(state) do
        v \leftarrow Min(v, P-Value(Result(s, a)))
     return v
function P-Value(state) returns a utility value
     sum \leftarrow 0
     for each r in Roll(state) do
        if Player(state) = Max then
            sum \leftarrow sum + Max(v, Min-Value(Result(s, r))) * Chance(r)
        else
            sum \leftarrow sum + Min(v, Max-Value(Result(s, r))) * Chance(r)
```

return sum

