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Algorithm 1 Partially Observable Monte-Carlo Planning
procedure Search(h)
                                                              procedure Simulate(s, h, depth)
    repeat
                                                                  if \gamma^{depth} < \epsilon then
         if h = empty then
                                                                       return 0
             s \sim T
                                                                   end if
         else
                                                                   if h \notin T then
             s \sim B(h)
                                                                       for all a \in \mathcal{A} do
         end if
                                                                           T(ha) \leftarrow (N_{init}(ha), V_{init}(ha), \emptyset)
         SIMULATE(s, h, 0)
                                                                       end for
     until Timeout()
                                                                       return ROLLOUT(s, h, depth)
    return argmax V(hb)
                                                                   end if
                                                                   a \leftarrow \operatorname{argmax} V(hb) + c\sqrt{\frac{\log N(h)}{N(hb)}}
end procedure
                                                                   (s', o, r) \sim \mathcal{G}(s, a)
procedure ROLLOUT(s, h, depth)
                                                                   R \leftarrow r + \gamma.\text{SIMULATE}(s', hao, depth + 1)
    if \gamma^{depth} < \epsilon then
                                                                   B(h) \leftarrow B(h) \cup \{s\}
         return 0
                                                                   N(h) \leftarrow N(h) + 1
    end if
                                                                   N(ha) \leftarrow N(ha) + 1
    a \sim \pi_{rollout}(h,\cdot)
                                                                   V(ha) \leftarrow V(ha) + \frac{R - V(ha)}{N(ha)}
    (s', o, r) \sim \mathcal{G}(s, a)
                                                                   return R
     return r + \gamma.ROLLOUT(s', hao, depth+1)
                                                              end procedure
end procedure
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