Solving a POMDP model

```
using POMDPs, POMDPModelTools, QuickPOMDPs
Qenum State hungry full
Qenum Action feed ignore
Qenum Observation crying quiet
pomdp = QuickPOMDP(
                 = [hungry, full], # s
    states
    actions
                 = [feed, ignore], # A
   observations = [crying, quiet], # 0
   initialstate = [full], # Deterministic
   discount = 0.9, # \gamma
    transition = function T(s, a)
       if a == feed
            return SparseCat([hungry, full], [0, 1])
        elseif s == hungry && a == ignore
            return SparseCat([hungry, full], [1, 0])
        elseif s == full && a == ignore
            return SparseCat([hungry, full], [0.1, 0.9])
       end
   end,
   observation = function O(s, a, s')
       if s' == hungry
            return SparseCat([crying, quiet], [0.8, 0.2])
        elseif s' == full
            return SparseCat([crying, quiet], [0.1, 0.9])
        end
   end,
   reward = (s,a)->(s == hungry ? -10 : 0) + (a == feed ? -5 : 0)
```

