Solving a POMDP model

```julia
using POMDPs, POMDPModelTools, QuickPOMDPs

@enum State hungry full
@enum Action feed ignore
@enum Observation crying quiet

pomdp = QuickPOMDP(
    states       = [hungry, full],  # 𝒮
    actions      = [feed, ignore],  # 𝒜
    observations = [crying, quiet], # 𝒪
    initialstate = [full], # Deterministic
    discount     = 0.9, # γ

    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)
)
```