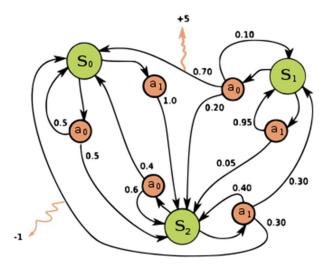
Markov Decision Process Representations

Consider the MDP shown in the state-transition diagram below.



Complete the tabular (matrix) representations of the T(s, a, s') and R(s, a, s').

	Т			R			
	S ₀	S ₁	S ₂	S ₀	S ₁	S ₂	
s ₀ , a ₀	0.5	0.0	0.5	0.0	0.0	0.0	
s ₀ , a ₁	0.0	0.0	1.0	0.0	0.0	0.0	
s ₁ , a ₀							
s ₁ , a ₁							
s ₂ , a ₀							
s ₂ , a ₁							

Next, take a different MDP, represented below in matrix form, and draw its state-transition diagram.

	٦	Γ	R			
	S ₀	S ₁		S ₀	S ₁	
s ₀ , a ₀	0.8	0.2		2	2	
s ₀ , a ₁	0.5	0.5		5	4	
s ₁ , a ₀	0.5	0.5		2	2	
s ₁ , a ₁	0.2	0.8		4	-10	