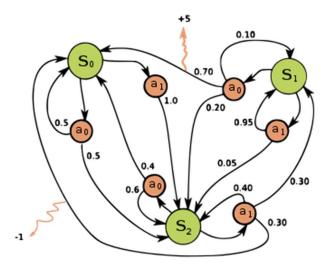
Markov Decision Process Representations

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	0.7	0.1	0.2	5.0	0.0	0.0	
s ₁ , a ₁	0.0	0.95	0.05	0.0	0.0	0.0	
s ₂ , a ₀	0.4	0.0	0.6	0.0	0.0	0.0	
s ₂ , a ₁	0.3	0.3	0.4	-1.0	0.0	0.0	

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

	Т			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		

