APS360 Reinforcement Learning Problem Setup Worksheet

For each of the RL Problems, what information should in the *state* provided to the agent? What possible *actions* can the agent choose at each time step? What should the *reward* be?

Problem:	State	Actions	Reward
Go			
Mario			
Mario			
Breakout			
Breakeat			
Biped			
- P - P			

APS360 Policy- vs Value-Based Model Worksheet

Suppose we want to train an agent to play the game of tic-tac-toe.			
How would you represent the <i>state</i> of the game?			
How would you represent the <i>actions</i> of the program?			
Describe the architecture of a policy-based , neural-network agent for this problem. What are the shapes of its input layer and output layer? How would you interpret the output layer activations?			
Describe the architecture of a value-based , neural-network agent for this problem. What are the shapes of its input layer and output layer? How would you interpret the output layer activations?			