$\begin{array}{cc} {\rm Reinforcement\ Learning} & {\rm S\&B} \\ {\rm Introduction} & \end{array}$

Exercises for chapter 5: An extended example: Tic-Tac-Toe

1.	Suppose, instead of playing against a random opponent, the reinforcement learning algorithm describe	ec
	above played against itself, with both sides learning. What do you think would happen in this case	e?
	Would it learn a different policy for selecting moves?	

Proof. Both agents will learn to beat each other probably resulting in some equilibrium. For that they would of course learn something different than against a random opponent. \Box