















Building an optimal policy

- Value Iteration
 - Calculate the utility of each state
 - Use the state utilities to select an optimal action in each state
 - Your policy is simple go to the state with the best utility
 - Your state utilities must be accurate
 - Through an iterative process you assign correct values to the state utility values









Using Bellman Equations to solve MDPs

- Consider a particular MDP
 - n possible states
 - *n* Bellman equations (one for each state)
 - *n* equations have *n* unknowns (U(s) for each state)
 - · Iterative technique to solve