CS343
Artificial Intelligence

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Good Afternoon, Colleagues
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Are there any questions?
Logistics

- Next week: RL
Logistics

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- Multiagent assignment past due
Logistics

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- RL assignment assigned...
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- RL assignment assigned... but due in 4 weeks
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  - Advice: start on it early. But if you get stuck, wait until after next week
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- Multiagent assignment past due
- RL assignment assigned... but due in 4 weeks
  - Advice: start on it early. But if you get stuck, wait until after next week
- Tournament details coming soon
Some Context

- **First weeks:** search (BFS, A*, minimax, alpha-beta)
  - Find an optimal plan (or solution)
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  - Best thing to do from the current state
  - Assume we know transition function and cost (reward) function
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  – Either execute complete solution (deterministic) or search again at every step
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  - Still know transition and reward function
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- **Next week:** Reinforcement learning
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- **Last week:** detour for probabilities and utilities
- **This week:** MDPs — towards reinforcement learning
  - Still know transition and reward function
  - Looking for a **policy** — optimal action from every state
- **Next week:** Reinforcement learning
  - Optimal policy without knowing transition or reward function