Good Morning, Colleagues
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Are there any questions?
Logistics

- Search assignment past due
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- Multiagent assignment assigned
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- Final exam scheduling
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- Next week’s readings: MDPs (week 1 activity)
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- FAI
Pending Questions

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- How prune chance nodes?
- Transposition table? (keys/vals)
- Forward pruning - how avoid removing best options?
- Exercise 5.6 - continuous-space
- Evaluation function with no prior experience
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- How does AI deal with irrational utility
- Could you quantify regret?
- Optimizer’s curse
- Why substitutability needed for rationality? (how fooled?)
Bid for a Car

- You asked your mechanic to go check it out
- The number on your piece of paper is what he told you it’s worth
- Mechanic is unbiased (equal chance of overestimating and underestimating)
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• Let’s run an auction
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- $10 increments allowed
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- Mechanic is unbiased (equal chance of overestimating and underestimating)
- Let’s run an auction
- Bidding starts at $1000
- $10 increments allowed
- If you win the car, your utility is the car’s true worth minus the amount you bid
- If you don’t win the car, your utility is -$10
How did you do?

- Most of you ended with utility of -$10
- How about the winner of the auction?
How did you do?

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- How about the winner of the auction?
- The mechanics were unbiased estimators
- For each of you with a value $x$ too high, someone else got a value $x$ too low
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- Numbers were $1100, 1125, 1150 \ldots 1900$
- True value:
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**Winner’s curse!**

Peter Stone