

Midterm 2 Logistics

- Midterm 2 on Oct 23 (6:30–7:15pm)
- Similar format as Midterm 1. One proof question worth 6 points (out of 40)
 - Writing “Don’t know” on the proof question guarantees 1 point
- Covers cooperative games, bargaining, stable matching, fair division of indivisible goods
- **Terms to know:**
 - Induced subgraph game, weighted voting game, Shapley value, core
 - Utilitarian welfare, egalitarian welfare, Nash welfare
 - Stable matching, blocking pair, Gale–Shapley algorithm
 - Envy-freeness, proportionality, EF1, EFX, maximin share, round-robin algorithm, envy-cycle elimination algorithm, Pareto optimal
- Practice questions posted on Canvas discussion forum