

Algorithmic Game Theory

Summer Term 2026

Tutorial Session - Week 11

Exercise 1:

Consider an instance of cake cutting with 3 agents and $v_1(x) = 2x$, $v_2(x) = 1$, $v_3(x) = 0$ for $x \in [0, \frac{2}{3})$ and $v_3(x) = 3$ for $x \in [\frac{2}{3}, 1]$.

Find a proportional allocation using the algorithm in section 4.

Exercise 2:

Show that the Borda count satisfies the Condorcet Loser Criterion (CLC).