

**Problem 1. Pure Nash equilibria**

Two tobacco companies must decide whether to buy ads for the next Formula 1 race.

- Displaying ads gives you a marketing advantage over the other producer.
- Total sales are marginally affected by advertising (the number of people smoking is the same, they only move from one brand to another).
- The total value of sales is 4. Advertising costs 0.5 (see matrix above).

	No Ad	Ad
No Ad	(2, 2)	(1, 2.5)
Ad	(2.5, 1)	(1.5, 1.5)

- What is the Nash equilibrium of this game?
- Formula 1 organizers now forbid tobacco advertising in their races. Are tobacco companies going to complain?

**Additional problems:** Solve Exercises 1 and 2 in the slides 01-Static games.pdf.