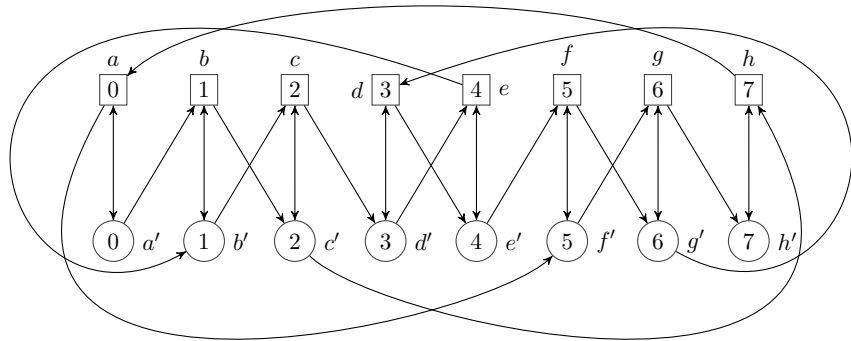
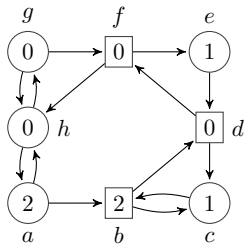


## Exercise Sheet 12

Prof. Dr. Roland Meyer, Reiner Hüchting

Due: Tue, Feb 3

For this sheet, consider the following parity games:



*Reminder: positions of A are  $\circ$ s and positions of P are  $\square$ s.*

### Exercise 12.1 Parity Game Attractors

- (a) Compute the attractor of  $\{a, b\}$  for player A in the left hand side game.
- (b) Compute the attractor of  $\{c, c'\}$  for player A in the right hand side game.

### Exercise 12.2 Parity Game Strategies

- (a) Give a positional strategy of P winning from a in the right hand side game.
- (b) Give a positional strategy of A winning from b in the right hand side game.

### Exercise 12.3 Parity Game Determinacy

Use the McNZSolver procedure from the lecture notes to solve the parity games.