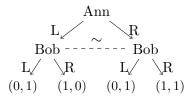
AGENT-BASED SYSTEMS SEMINAR #3

PAOLO TURRINI

1. Imperfect Information

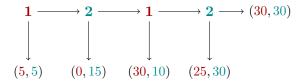
In the game below Ann and Bob receive the payoffs at the terminal nodes, with the left element of each pair being Ann's.



- 1.1) Calculate all pure strategy NE (in uniform strategies)
- 1.2) Calculate all mixed strategy NE
- 1.3) Calculate all behavioural strategy NE. Is there any difference with the case above?

2. Perfect information

The game below is a centipede game. We start in the choice node on the left. At each step, the player whose turn it is can choose between going right and going down:



- 2.1) Intuitively, how would you play?
- 2.2) Calculate the backwards induction outcome.
- 2.3) Transform the game into normal form.
- 2.4) Reflect on the normal form game you obtained. What is the solution concept that corresponds to backwards induction?