

# Computationele logica

Kamans, Jim  
10302905

Roosingh, Sander  
11983957

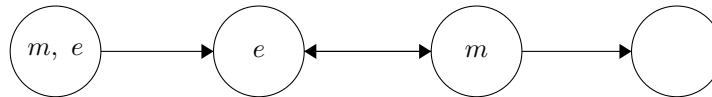
Schenk, Stefan  
11881798

December 2017

## Exercise 1

A robot is in a war zone. It doesn't know its location, but all it cares is whether or not there is a mine in front (m), and whether or not there is an enemy approaching (e).

1. *Represent the robots's belief-revision structure using a single-agent plausibility model, with four possible states, using the atomic sentences m for "there is a mine in front of the robot", and e for "an enemy is approaching".*



2. *Suppose now that the robot's sensors indicate some vibrations.*



3. *Immediately after the event in the previous part, the robot's metal detector indicates the presence of a mine*



- 4.

## Exercise 2

- 1.

- 2.
- 3.
- 4.
- 5.