1	2	3	Σ
3	7	6	16

Assignment 5

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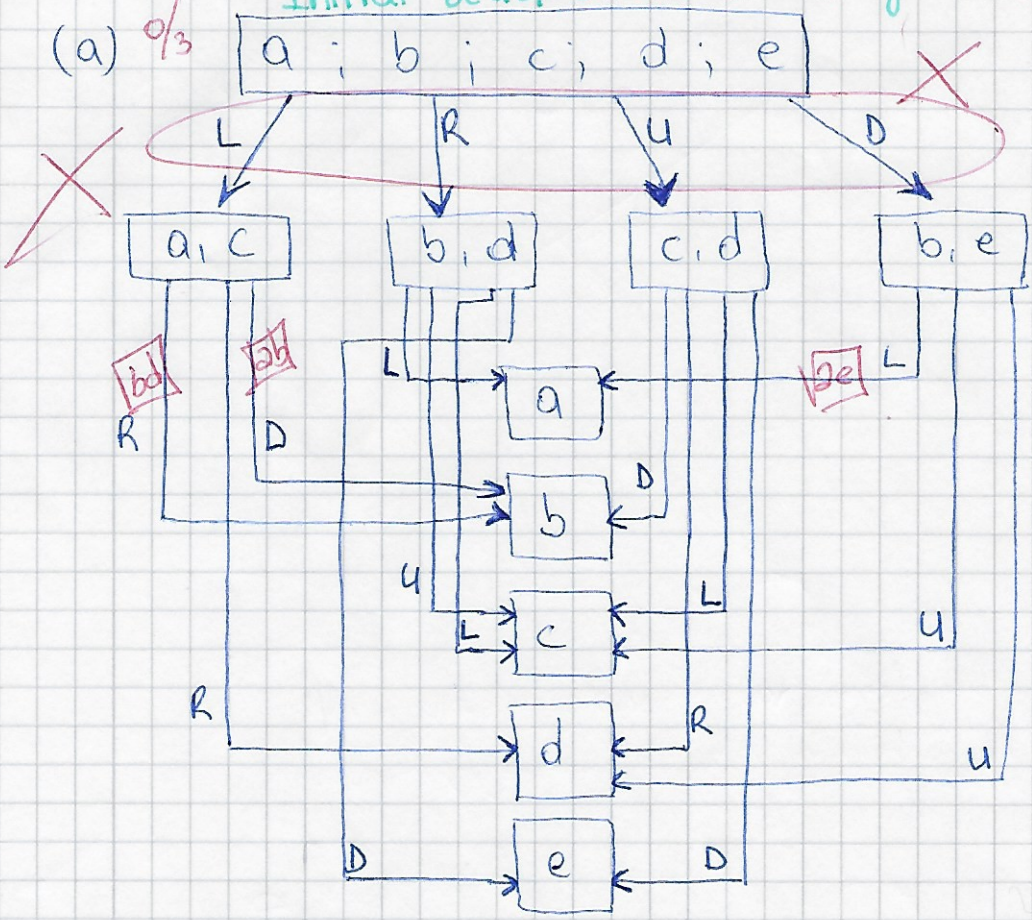
Question 1 3/6

(a) 0/3



Belief-states

Readable portion of the belief-state space for the deterministic sensorless agent

How can I grade the rest?

Next time write it all down!

This graph ignores the fact that the agent can stay in the same state

(b) We have 5 cases:

2/2 ✓

a → d: R - U - R
b → d: U - R
c → d: R
d : Stay in spot/state.
e → d: U.

Thus we see that we have two different movements. Either right or upwards. Or we use a combination of the two movements. In case that the agent is already in d it remains in the same state

The agent will find the path because, eventhough he doesn't know the real position, he knows the movements. In belief-state space, the problem is fully observable.

(c) To solve sensorless problems in practice we need a classical search method because it explores the search space systematically and it keeps more paths in memory.
Also it is a plus side that it records alternatives which have been explored.

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