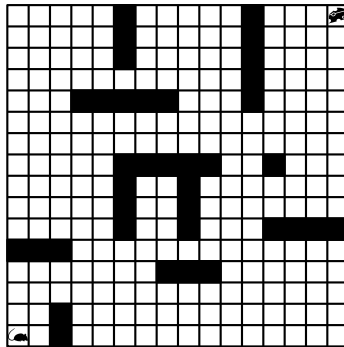


Advanced Problem Solving and Search Tutorial 2

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Exercise 2.1:

Design a Simulated Annealing Algorithm for the Maze Problem of Exercise 1.1. Consider the following questions.



- How would you represent a solution? If you are considering different options, discuss the pros and cons.
- How do you generate the initial solution resp. how do you ensure feasibility of solutions?
- What is the neighbourhood of a solution?
- What is the evaluation function?

Exercise 2.2:

Now, design a Tabu Search Algorithm for the same problem. Consider the following questions.

- Would you use the same representation, neighbourhood and evaluation function? Why?
- How do you organize the tabu list?
- What kind of aspiration criteria would you consider?
- How do you organize the long-term memory?