

Problem Solving and Search in AI Tutorial 2 (on May 16th)

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SS 2017

Exercise 2.1:

Design a Tabu-Search Algorithm for the *job shop scheduling* problem. Consider the following questions.

- How do you represent a solution?
- How do you generate the initial solution resp. how do you ensure feasibility of solutions?
- What is the neighborhood of a solution?
- What is the evaluation function?
- How do you organize the tabu list?
- What kind of aspiration criteria would you consider?

Exemplify your algorithm on the following problem instance. 3×3

0	4	1	3	2	5
2	4	1	3	0	4
0	6	2	3	1	3