

Algorithms and Data Structures

Homework 9

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Problem 1

- a. My code for this problem can be found in “double_hashing.py” and the documentation about all the adding and collisions (which there were none) is in “solution_a.txt”.
- b. My code for this problem can be found in “linear_hashing.py”.

Problem 2

- a. Let’s say that we have 5 activities in total, and they are arranged like this:



So our algorithm would choose only the two short activities and that wouldn’t be the globally optimal solution (the globally optimal solution would be 3 activities).

- b. My code for this problem can be found in “greedy_b.py”.