Homework Assignment 4

Data Structures and Algorithms I, WT 2021

Due: 12.11.2021

- 1. (14 Points) A d-ary heap is like a binary heap, but nonleaf nodes have d children instead of 2 children.
 - a. How would you represent a d-ary heap in a array?
 - b. What is the height of a d-ary heap of n elements in terms of n and d? Justify your answer.
 - c. Give an efficient implementation of HEAPIFY in a d-ary max-heap. Analyze its running time in terms of d and n.