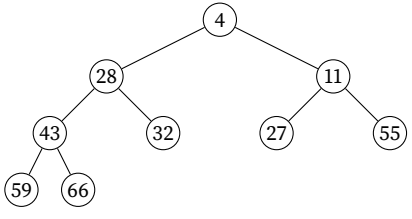
Binary heaps

Take the following binary heap H_1, where both the tree-representation and array-representatio are given:



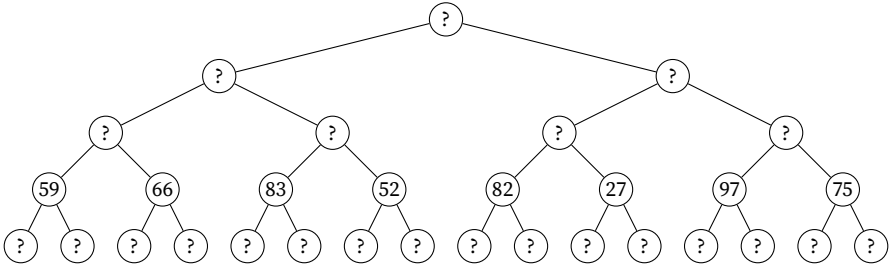
4	28	11	43	32	27	55	59	66
0	1	2	3	4	5	6	7	8

Fill out the tables for each exercise in Inspera. The tables correspond to the array-representatio of H_1 after applying a given operation. The questions are independent, meaning that H_1 always refers to the heap as given above, and any mutation to the heap in one exercise does not persist to the next.

(a) What does the heap look like after one call to H_1.`RemoveMin`()?

(b) What does the heap look like after one call to H_1.`Insert`(7)?

In another binary min-heap H_2, you are only provided the values at depth 3:



(c) What is the smallest value that can be located at depth 4 of H_2?