

1 Exercises

Exercise 1. Insert the following keys in that order into a max-heap:

E A S Y Q U T I O N

- What is the state of the array `pq` representing the resulting tree?
- What is the height of the tree (the root is at height zero)?

Exercise 2. Suppose that a letter in the input means *insert the letter* into an initially empty min-PQ and an asterisk (*) means *remove the minimum* from the priority queue. What is left in the priority queue after the following input is processed?

P R I O * R * * I * T * Y * * * Q U E * * * U E *

2 Solutions

Solution 1.

- Y S U O Q E T A I N
- 3

Solution 2. U