1. Exercise 10 on page 419
2. Exercise 14 on page 421
3. Exercise 18 on page 424
4. Exercise 24 a on page 429
5. Exercise 33 on page 435
6. Exercise 1 on page 505
7. Exercise 2 on page 505
8. Exercise 3 on page 505

9. If you had an infinite supply of water and a 5 quart and 3 quart pail, how would you measure exactly 4 quarts? Can you do this for any two jars of sizes \( A \) and \( B \) in order to measure exactly \( A - 1 \)? Justify your answer.

10. Given a list of non negative integers, arrange them such that they form the largest number. For example, given \([3, 30, 34, 5, 9]\), the largest formed number is 9534330. (Note: The result may be very large, so you need to return a string instead of an integer.)

11. Given a binary tree and a sum, find all root-to-leaf paths where each path’s sum equals the given sum.

For example, given the below binary tree and sum = 22,

```
      5
     / \    
    4   8
   / \    
  11 13 4
 / \  /  \
7  2  5  1
```

the method returns the following:

\[ [5, 4, 11, 2] \]