Project 2B Test Cases

You are strongly encouraged to write your own test cases. The test cases (similar to the zybooks unit tests) that you might have problem with are listed below:

1. count_runs

- input: [4,4,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,8,7]
- output: 6
- input: [1,2,3,4,5,1,2,3,4,5,1,2,3,4,5,1,2,3,4,5,1,2,3,4,5]
- output: 25

2. encode_rle

- input: [4,4,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,8,7]
- output: [2,4,15,1,15,1,5,1,1,8,1,7]

- input: [1,2,3,4,1,2,3,4]
- output: [1,1,1,2,1,3,1,4,1,1,1,2,1,3,1,4]

- input: [4,4,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]
- output: [2,4,15,1,15,1,5,1]

- input: [4,5,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]
- output: [1,4,1,5,15,1,15,1,5,1]

3. decode_rle

- input: [2,4,15,1,15,1,5,1,1,8,1,7]
- output: [4,4,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,8,7]

Before you test your program on the above test cases, please make sure your program also works for the examples given in the project 2 instructions.