Weekly Report

Zhe Wang

August 27, 2021

1 1. Leetcode

This week, I did 6 medium level Leetcode problems. 3.Longest Substring without repeating characters;



Figure 1: The runtime of this problem.

The runtime is 62ms, faster than 62.82 people. Still need to speed up the runtime. 6. ZigZag Conversion;

Figure 2: The runtime of this problem.

The runtime is 143ms, faster than only 10.6 people. I need to practice more to find a better way to speed up.

17. Letter Combinations of a Phone Number;

```
Success Details >

Runtime. 49 ms, faster than 5.18% of Python3 online submissions for Letter Combinations of a Phone
Number.

Memory Usage: 14.3 MB, less than 63.30% of Python3 online submissions for Letter Combinations of a Phone Number.

Memory Usage: 14.3 MB, less than 63.30% of Python3 online submissions for Letter Combinations of a Phone Number.
```

Figure 3: The runtime of this problem.

The runtime is 49ms, faster than only 5.18 people. I need to practice more to find a better way to speed up.

22. Generate Parentheses;

```
Success Details >

Runtime: 59 mS, faster than 10.94% of Python3 online submissions for Generate Parentheses.

Memory Usage: 14.7 MB, less than 39.63% of Python3 online submissions for Generate Parentheses.

Next challenges:

Valid Parentheses

(Valid Parentheses)

(Valid Parentheses)

(Lass Solution:

od: parentheses(self, n: int) >> List[str]:

od: parentheses(self, n: int) >>
```

Figure 4: The runtime of this problem.

The runtime is 59ms, faster than only 10.94 people. I need to practice more to find a better way to speed up.

24. Swap nodes in Paris;

Figure 5: The runtime of this problem.

I could not solve this problem. This version is based on the discussion session's solution. Still need to learn more about Python.

29. Divide Two Integers

Figure 6: The runtime of this problem.

This one is good.

2 2. Deep learning Lessons

I have finished the first and second part of the deep learning lesson. Next week, i will continue on the rest of the course materials. So far, I have the basic ideas of neutral networks and tried some python codes.