HW8: Redux Fundamental

0. Leetcode

https://leetcode.com/problem-list/oizxjoit/

每天1-3道题，需要用JavaScript或者TypeScript

1. 问答练习(八股）

准备以下八股题目答案, 写在 `note.md` 里

1. What is the Flux architecture?

2. Explain what the Redux store, actions, reducers are and what they do.

3. Describe the work flow of Redux

4. How do you create/configure a store in redux?

5. Explain how to use `connect()`

6. What is `mapDispatchToProps` and what does it do?

7. What is `mapStateToProps` and what does it do?

8. how do we use `useSelector` and `useDispatch` ?

小组间Peer Mock，录音并上传

2. Coding

Write a `functional component` : (revision of number counter from React fundamental)

1. Install dependencies: `reduxjs/toolkit` , `redux` , `react-redux`

2. Initial value should be initialized by redux store (reducer)

3. write actions and creators for updating (increment/decrement) values in store

4. use either `useSelector` or `mapStateToProps` to render state value on web page

5. build 2 buttons to dispatch increment and decrement events by using `mapDispatchToProps`

6. build ANOTHER 2 buttons to dispatch actions by using `useDispatch`

7. Extra Credit: `read` the **initial value** from `localStorage` as cached value at ***mounting phase(not at initial value of store)*** and `write` the current value back to `localStorage` when component ***unmounting***. So next time when you open the same application, value will be initialized as last change.

8. Bonus: Make you App look pretty by using 3rd party CSS components like MUI/tailwindCSS (you can reuse the style from previous coding challenge)