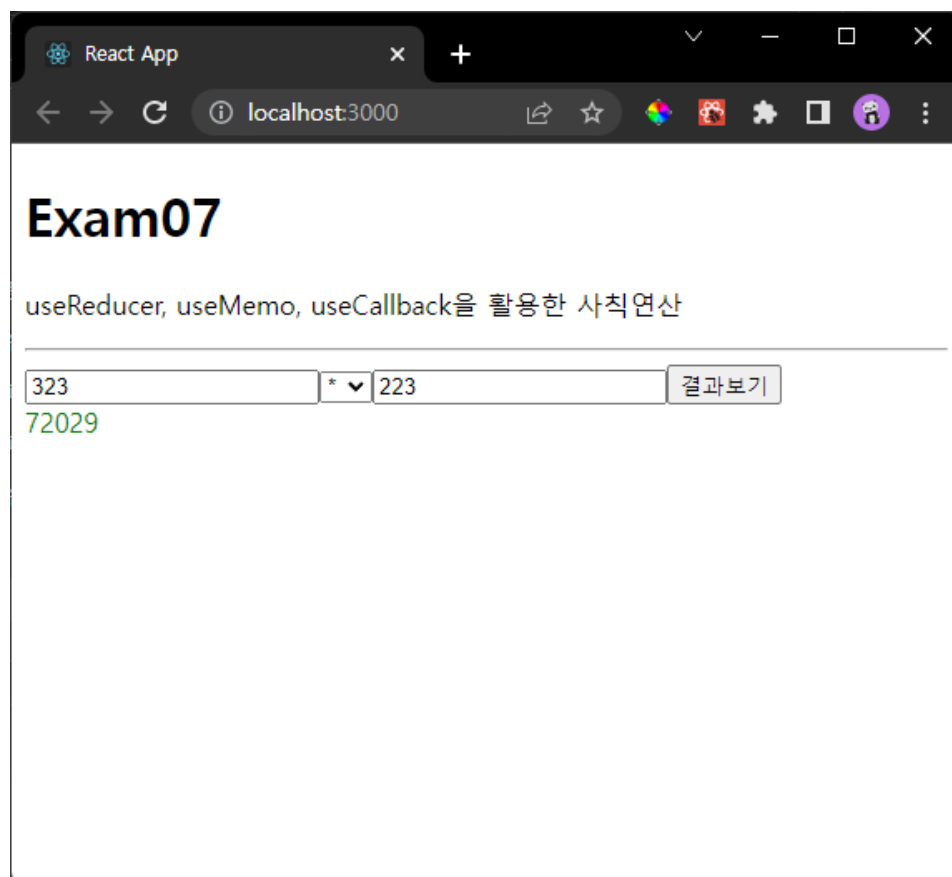
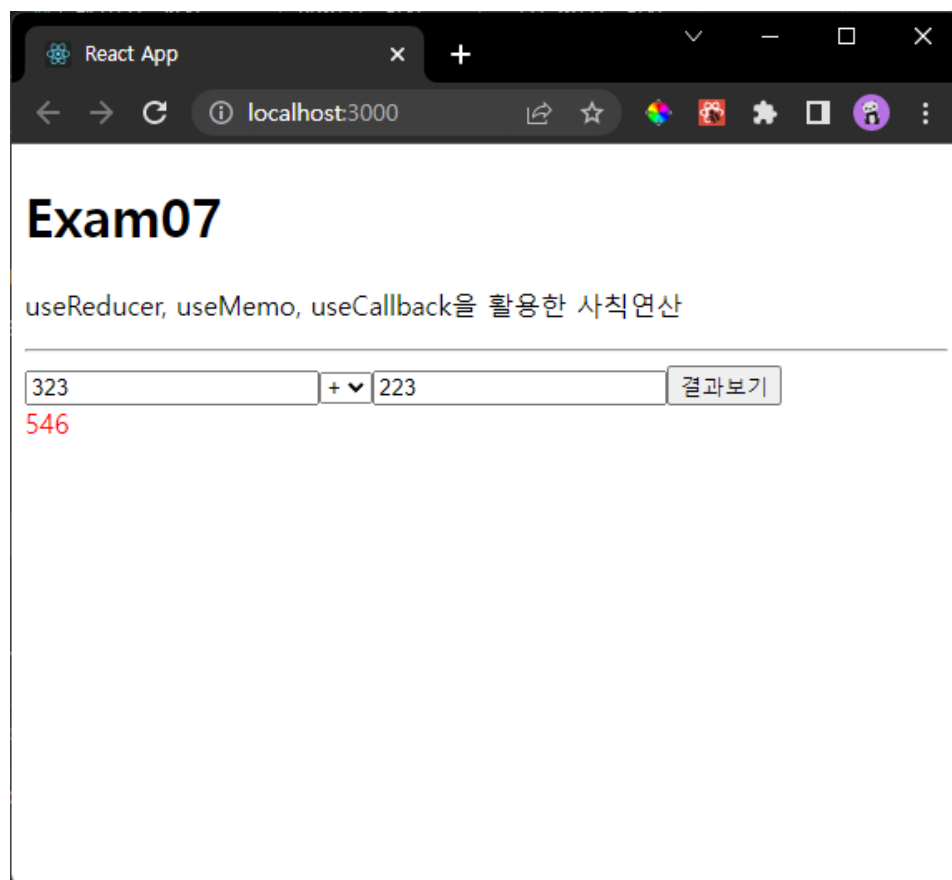


박정모 리액트 연습문제 7

2022-05-03



App.js

```
import React, { useReducer, useMemo, useCallback, useRef } from 'react';

function App() {

  const container = useRef();
  const first = useRef();
  const second = useRef();
  const operation = useRef();

  // 3. 입력받은 action값을 처리하여 result 값 리턴
  function calculate(state, action) {
    switch (action.operation) {
      case '+':
        return Number(action.firstNum) + Number(action.secondNum);
      case '-':
        return Number(action.firstNum) - Number(action.secondNum);
      case '*':
        return Number(action.firstNum) * Number(action.secondNum);
      case '/':
        return Number(action.firstNum) / Number(action.secondNum);
      default :
        return 0;
    }
  }

  // 1. 결과값으로 사용할 result 할당
  const [result, setResult] = useReducer(calculate, '');

  // 2. 버튼이 눌릴 때 setResult에 현재 입력값을 JSON 프로퍼티로 전달하는 함수
  // Callback처리
  const onClick = useCallback((e) => {
    setResult({
      firstNum: first.current.value,
      operation: operation.current.value,
      secondNum: second.current.value,
    });
  }, []);

  // 4. result 값이 변할 때마다 container에 출력
  React.useEffect(e => {
    container.current.innerHTML = result;
  }, [result]);

  // 5. result 값이 변할 때 마다 체크하여 색상 변화
  const color = useMemo(() => {
    return result % 2 === 0 ? 'red' : 'green';
  }, [result]);

  return (
```

```
    <div className="App">
      <h1>Exam07</h1>
      <p>useReducer, useMemo, useCallback을 활용한 사칙연산</p>
      <hr/>
      <input type='number' ref={first} name='firstNum' />
      <select name='operation' ref={operation}>
        <option value='+'>+</option>
        <option value='- '>-</option>
        <option value='* '>*</option>
        <option value='/'>/</option>
      </select>
      <input type='number' ref={second} name='secondNum' />
      <button type='button' onClick={onClick}>결과보기</button>
      <div style={{color: color}} ref={container}></div>
    </div>
  );
}

export default App;
```