

## 연습문제07 - 2

### App.js

```
import React from "react";

function App() {
  // 첫번째 input
  const first = React.useRef();
  // 두번째 input
  const second = React.useRef();
  // 선택박스
  const operator = React.useRef();
  //상태값 갱신 Reducer
  function setCalculate(state, action) {
    switch (action.operatorValue) {
      case "+":
        return state = action.firstValue + action.secondValue;
      case "-":
        return state = action.firstValue - action.secondValue;
      case "*":
        return state = action.firstValue * action.secondValue;
      case "/":
        return state = action.firstValue / action.secondValue;
      default:
        return state;
    }
  }
  //useReducer 사용
  const [cal, setCal] = React.useReducer(setCalculate, 0)
  // useCallback을 사용한 버튼 클릭이벤트
  const onClick = React.useCallback((e) => {
    //첫번째 input값 가져오기
    const firstValue = parseInt(first.current.value)
    //두번째 input값 가져오기
    const secondValue = parseInt(second.current.value)
    //선택박스 값 가져오기
    const operatorValue = operator.current.value
    // json형태로 setCal(action)에 대입
    setCal({firstValue, secondValue, operatorValue})
  }, []);
  const colorChange = React.useMemo(() => {
    return cal % 2 === 0 ? "#cfbee0" : "#981d50"
  }, [cal])

  return (
    <div>
      <h1>Exam07</h1>
      <p>
        useReducer, useMemo, useCallback을 활용한 사칙연산
      </p>
    </div>
  )
}
```

```
    </p>
    <hr/>
    <div>
      <input type="text" ref={first}/>
      <select ref={operator}>
        <option>+</option>
        <option>-</option>
        <option>*</option>
        <option>/</option>
      </select>
      <input type="text" ref={second}/>
      <button type="button" onClick={onClick}>결과확인</button>
    </div>
    <h1 style={{fontSize: '20px', color:colorChange}}>
      결과값: {cal}
    </h1>
  </div>
);
}

export default App;
```

# Exam07

useReducer, useMemo, useCallback을 활용한 사칙연산

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결과확인

결과값: 3

# Exam07

useReducer, useMemo, useCallback을 활용한 사칙연산

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결과확인

결과값: 2