

리액트 hook 활용 사칙연산

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

const result = (state, action) => {
  let n1 = Number(action.number1);
  let n2 = Number(action.number2);
  switch (action.operator) {
    case "+":
      return (state = n1 + n2);
    case "-":
      return (state = n1 - n2);
    case "*":
      return (state = n1 * n2);
    case "/":
      return (state = n1 / n2);
    default:
      break;
  }
};

function App() {
  const [number1, setNumber1] = useState(0);
  const [number2, setNumber2] = useState(0);
  const [operator, setOperator] = useState("+");
  const operators = useRef();
  const json = { number1, number2, operator };

  const onNumber1 = useCallback(
    (e) => {
      setNumber1(e.currentTarget.value);
    },
    [number1]
  );

  const onNumber2 = useCallback(
    (e) => {
      setNumber2(e.currentTarget.value);
    },
    [number2]
  );

  const opValue = useCallback(
    (e) => {
```

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        const op = e.currentTarget;
        const oper = op[op.selectedIndex].value;
        setOperator(oper);
    },
    [operator]
);

const [calc, setCalc] = useReducer(result, 0);
const onClick = useCallback(() => {
    setCalc(json);
});

const color = React.useMemo(() => {
    return calc % 2 === 0 ? (
        <h1 style={{ color: "violet" }}>{calc}</h1>
    ) : (
        <h1 style={{ color: "green" }}>{calc}</h1>
    );
}, [calc]);

console.log(number1, operator, number2);

return (
    <div>
        <h1>Exam07_사칙연산</h1>
        <p>useReducer, useMemo, useCallback을 활용한 사칙연산</p>
        <hr />
        <input type="text" onChange={onNumber1} />
        <select ref={operators} onChange={opValue}>
            <option value="+">+</option>
            <option value="-">-</option>
            <option value="*">*</option>
            <option value="/">/</option>
        </select>
        <input type="text" onClick={onNumber2} />
        <button type="button" onClick={onClick}>
            결과확인
        </button>
        <hr />
        <div>
            {color}
        </div>
    </div>
);
}

export default App;

```

Exam07_사칙연산

useReducer, useMemo, useCallback을 활용한 사칙연산

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결과확인

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Exam07_사칙연산

useReducer, useMemo, useCallback을 활용한 사칙연산

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결과확인

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