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

import ReactDOM from "react-dom/client";

import { findNthPrime } from "./Utilis/prime";

const App = () => {

const [primeNum, setPrimeNum] = useState(0);

const [square, setSquare] = useState(0);

console.log("Rendering");

const prime = **useMemo**(() => findNthPrime(primeNum), [**primeNum**]);

const handlePrime = **useCallback**((ev) => {

setPrimeNum(ev.target.value);

console.log("Prime Rendering");

}, []);

const handleSquare = **useCallback**((ev) => {

setSquare(ev.target.value);

console.log("Square Rendering");

}, []);

return (

<div>

<input type="number" name="prime" value={primeNum} onChange={handlePrime} />

<div>nth Prime: {**prime**}</div>

<input type="number" name="square" value={square} onChange={handleSquare} />

<div>square: {square \* square}</div>

</div>

);

};

const root = ReactDOM.createRoot(document.getElementById("root"));

root.render(<App />);

export default App;