



```
1 // Memoization with React.memo
2
3 const MyComponent = React.memo(({ value }) => {
4     console.log('Component re-rendered');
5     return <div>{value}</div>;
6 });
```



```
1 // Using callback and useMemo
2
3 const expensiveCalculation = (num) => {
4   // some heavy calculation
5   return num * 2;
6 };
7
8 const MyComponent = ({ number }) => {
9   const memoizedValue = useMemo(() => expensiveCalculation(number), [number]);
10  return <div>{memoizedValue}</div>;
11 };
```



```
1 // Lazy Loading with React.lazy & Suspense
2
3 const LazyComponent = React.lazy(() => import('./LargeComponent'));
4
5 function App() {
6   return (
7     <div>
8       <Suspense fallback={<div>Loading ... </div>}>
9         <LazyComponent />
10      </Suspense>
11    </div>
12  );
13 }
```