React Setup

Add Script	<script src="foo.com/react.js" crossorigin />
Add targeting div	
Get root Dom	root = document.getElementById("root");
Bootstrap React	ReactDOM.render(<App />, rootElement);

React Hooks

```
const [state, setState] = useState(initialState);
```

```
useEffect(() => { ...logic, return cleanup}, [deps]);
```

```
useMemo(() => computeExpensiveValue(a, b), [a, b]);
```

```
Context
  ThemeContext = React.createContext(themes.light);
  <ThemeContext.Provider value={themes.dark}>

  theme = useContext(ThemeContext);
  background: theme.background
```

```
useRef
  const inputEl = useRef(null);
  <input ref={inputEl} />
  inputEl.current.focus();
```

async useEffect

```
useFetch = (param) => {
    const [state, setState] = useSta te([]);
    use Eff ect(() => {
        async function fetchD ata() {
            const response = await fetch( 'url');
            const data = await respon se.j son();
            set Sta te( (prev) => prev.c onc at( -
dat a.r esu lts));
       }
        fet chD ata();
   }, [param]);
    return { state };
};
```

JS Arrays

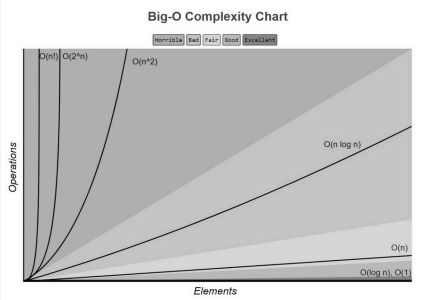
Insert at Start	unshift()
Insert at End	push()
Insert at Location	splice(start, 0, item2, itemN)
Remove First	shift()
Remove Last	pop()
Remove at Location	splice(start, deleteCount)
Get parts	slice(start, end)

Algos

DFS	getNodes(root) [...getNodes(root.left), getNodes(root.right)]

BFS	while(queue.length)
	for(queue.length)
	node = queue.shift()
	queue.push(node.left/right)

Big-O



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