

## Changes to Lottery Game

- Make the Lottery tickets of N digit number
- The Winning Sum could be any feasible number

15  
25  
10  
8

3

5



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# Component Types

logical

smart

state ✓

(change)

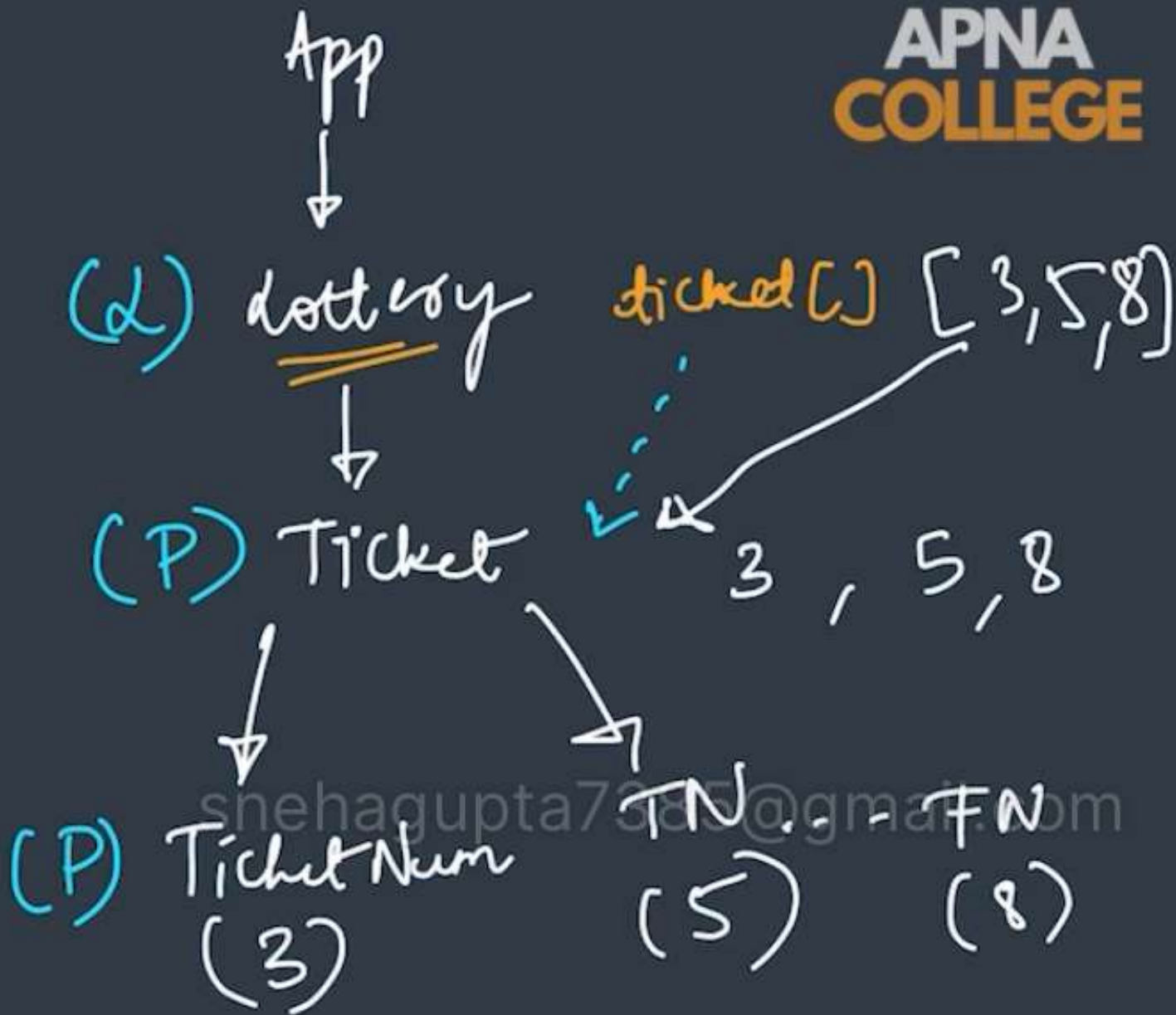
logic

Presentational

dumb

UI


no state




 TicketNum.jsx U ✕

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Complexity is 3 Everything is cool!

```
1  export default function TicketNum({num}){ 
2      return <span>{num}</span>
3  }
```

```
1  import TicketNum from "../TicketNum"
2  import "../Ticket.css"
   Complexity is 6 It's time to do something...
3  export default function Ticket({ticketArr}){
4      return(
5          <>
6              <div className="ticket">
7                  <span>Lottery Ticket = </span>
8                  {
9                      ticketArr.map((ticket,index)=>(
10                         <TicketNum num={ticket} key={index}/>
11                     ))
12                  }
13              </div>
14          </>
15      );
16  }
```

 Ticket.css U X

Learning > FRONTEND > Apna College > React > Rea

```
1  .ticket{
2      border: 1px solid yellow;
3      border-radius: 10px;
4      width: 300px;
5      margin-bottom: 15px;
6  }
```



```
1  import {useState} from "react"
2  import { genRand,sum } from "./helper";
3  import Ticket from "./Ticket";
   Complexity is 9 It's time to do something...
4  export default function Lottery({n=3,winningSum=15}){
5      let [ticket,setTicket]=useState(genRand(n))
6      let isWinning=sum(ticket)===winningSum;
7
8      function buyticket(){
9          setTicket(genRand(n));
10     }
11     return(
12     <div>
13         <h1>Lottery Game!</h1>
14         <Ticket ticketArr={ticket}/>
15         <button onClick={buyticket}>Buy More ticket</button>
16         <h3>{isWinning && "Congratulation! You won the Lottery"}</h3>
17     </div>
18     );
19 }
```



JS helper.js U X

Learning > FRONTEND > Apna College > React > React Lecture-5

Complexity is 3 Everything is cool!

```
1 function genRand(n){ 
2    let arr = new Array(n);
3   for(let i = 0; i < n; i++){
4     arr[i]=Math.floor(Math.random()*10);
5   }
6
7   return arr;
8 }
9 Complexity is 3 Everything is cool!
10 function sum(arr){ 
11   return arr.reduce((arr,sum)=>arr+sum,0);
12 }
13 export {genRand,sum};
```



```
1  import './App.css'
2  import Lottery1 from './Lottery'
   Complexity is 3 Everything is cool!
3  function App() { 
4      return (
5          <>
6          <Lottery1 n={3} winningSum={15}/>
7          </>
8      )
9  }
10
11  export default App
12
```

# Lottery Game!

Lottery Ticket = 618

Buy More ticket

**Congratulation! You won the Lottery**

# Lottery Game!


Lottery Ticket = 143

Buy More ticket

# Lottery Game!

Lottery Ticket = 143

Buy More ticket



```
let buyTicket = () => {  
  setTicket(genTicket(n));  
};
```



App.jsx U ×



Lottery.jsx U

Learning &gt; FRONTEND &gt; Apna College &gt; React &gt; React Lecture-5 &gt; L

```
1  import './App.css'
2  import { sum } from './helper'
3  import Lottery1 from './Lottery'
   Complexity is 5 Everything is cool!
4  function App() {  
5      let wincondition= (ticket)=>{
6          return sum(ticket)===15;
7      };
8      return (
9          <>
10         <Lottery1 n={3} wincondition={wincondition}/>
11         </>
12     )
13 }
14
15 export default App
16
```

App.jsx U Lottery.jsx U X

Learning > FRONTEND > Apna College > React > React Lecture-5 > Lottery Game > src > L

```
1  import {useState} from "react"
2  import { genRand,sum } from "./helper";
3  import Ticket from "./Ticket";
   Complexity is 9 It's time to do something...
4  export default function Lottery({n=3,wincondition}){
5      let [ticket,setTicket]=useState(genRand(n))
6      let isWinning=wincondition(ticket);
7
8      function buyticket(){
9          setTicket(genRand(n));
10     }
11     return(
12     <div>
13         <h1>Lottery Game!</h1>
14         <Ticket ticketArr={ticket}/>
15         <button onClick={buyticket}>Buy More ticket</button>
16         <h3>{isWinning && "Congratulation! You won the Lottery"}</h3>
17     </div>
18     );
19 }
```



# Lottery Game!

Lottery Ticket = 519

Buy More ticket

**Congratulation! You won the Lottery**

App.jsx U × Lottery.jsx U

Learning > FRONTEND > Apna College > React > React Lecture-5 > Lottery Game > src > App.jsx > A

```
1  import './App.css'
2  import { sum } from './helper'
3  import Lottery1 from "./Lottery"
   Complexity is 6 It's time to do something...
4  function App() {
   Complexity is 3 Everything is cool!
5      let wincondition= (ticket)=>{
6          /*Below line is for winning at the total digit sum: 15 */
7          // return sum(ticket)===15;
8          /*Below line is for winning at the digit are equal to its 0th index number */
9          return ticket.every((num)=>num===ticket[0]);
10     };
11     return (
12         <>
13         <Lottery1 n={3} wincondition={wincondition}/>
14         </>
15     )
16 }
17
18 export default App
19
```

App.jsx U × Lottery.jsx U

Learning > FRONTEND > Apna College > React > React Lecture-5 > Lottery Game > src > App.jsx > A

```
1  import './App.css'
2  import { sum } from './helper'
3  import Lottery1 from "./Lottery"
   Complexity is 6 It's time to do something...
4  function App() {
   Complexity is 3 Everything is cool!
5      let wincondition= (ticket)=>{
6          /*Below line is for winning at the total digit sum: 15 */
7          // return sum(ticket)===15;
8          /*Below line is for winning at the digit are equal to its 0th index number */
9          return ticket.every((num)=>num===ticket[0]);
10     };
11     return (
12         <>
13         <Lottery1 n={3} wincondition={wincondition}/>
14         </>
15     )
16 }
17
18 export default App
19
```

# Lottery Game!

Lottery Ticket = 777

Buy More ticket

**Congratulation! You won the Lottery**

App.jsx U Lottery.jsx U X button.jsx U

Learning > FRONTEND > Apna College > React > React Lecture-5 > Lottery Game > src > Lottery.

```
1  import {useState} from "react"
2  import { genRand,sum } from "./helper";
3  import Ticket from "./Ticket";
4  import Button1 from "./button";
   Complexity is 9 It's time to do something...
5  export default function Lottery({n=3,wincondition}){
6      let [ticket,setTicket]=useState(genRand(n))
7      let isWinning=wincondition(ticket);
8
9      function buyticket(){
10         setTicket(genRand(n));
11     }
12     return(
13     <div>
14         <h1>Lottery Game!</h1>
15         <Ticket ticketArr={ticket}/>
16         <Button1 action={buyticket}/>
17         <h3>{isWinning && "Congratulation! You won the Lottery"}</h3>
18     </div>
19     );
20 }
```



App.jsx U




Lottery.jsx U



button.jsx U X

Learning > FRONTEND > Apna College > React > React Lecture-5 > Lottery Game > src

Complexity is 3 Everything is cool!

```
1 export default function button({action}){ 
2   |   return(<button onClick={action}>Buy More ticket</button>);
3   }
```

# Lottery Game!

Lottery Ticket = 444

Buy More ticket

**Congratulation! You won the Lottery**