Managing state in React Open Lab ┌↗

Instructions

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Task

In the starter code of this code lab, you are given a **Fruits** component that has its own state. Based on this state, it outputs three fruits on the screen. Additionally, you have a **FruitsCounter** component which shows a message that reads: "Total fruits: 2". Your task is to lift state up from the **Fruits** component to the **App** component, so that you can then pass the state information to both the **Fruits** component and the **FruitsCounter** component.

This change to the app should fix the previously incorrect message of "Total fruits: 2". The new message should be "Total fruits: 3". However, the new message will not be just a hard-coded string. Instead, it should reflect the number of fruits that exist in the state variable, so based on how many fruits there are in the state array, this information should affect the output of the total number of fruits - as returned from the FruitsCounter component.

Where should the state go?

apple apple plum

Total fruits: 2

Steps

Step 1. This task's starting point is the stateless **App** component's code:

```
import Fruits from "./Fruits";
2
     import FruitsCounter from "./FruitsCounter";
3
4
     function App() {
5
       return (
         <div className="App">
6
7
            <h1>Where should the state go?</h1>
8
            <Fruits />
9
            <FruitsCounter />
10
         </div>
11
       );
12
     };
13
14
     export default App;
15
```

The first step of this task is to move the state from the Fruits component:

```
import React from "react";
1
2
3
     function Fruits() {
4
         const [fruits] = React.useState([
5
             {fruitName: 'apple', id: 1},
6
             {fruitName: 'apple', id: 2},
7
             {fruitName: 'plum', id: 3},
8
         ]);
9
10
         return (
11
12
                 {fruits.map(f => {f.fruitName})}
13
             </div>
14
         );
15
     };
16
17
     export default Fruits;
```

The state should be moved to the App component. That is the first step of this task.

Step 2.

The Fruits component should be updated so that it accepts state from the App component.

Step 3.

Once you've lifted the state up from the Fruits component to the App component, you also need to update the FruitsCounter component.

Just like the Fruits component, the FruitsCounter component should also receive state from the App component, so that it can display the number of the available fruits using the length property of the array of fruits from the fruits state variable. This state variable comes from App and is received in FruitsCounter as prop.button, to which you'll add the following text: Guess the number between 1 and 3.

Step 3.

Save your updates and serve the app so that it shows the correct count of fruits, while the rest of the output should remain unchanged.