

```

import React, { Component } from 'react';
// import './AddTodo.css';

class AddTodo extends Component {
  constructor(props) {
    super(props);

    this.state = {
      text: ''
    }

    this.onTextChange = this.onTextChange.bind(this);
    this.onAdd = this.onAdd.bind(this);
  }

  render() {
    return (
      <section className="AddTodo">
        <input type="text" value={this.state.text} onChange={this.onTextChange} />
        <button onClick={this.onAdd}>Add</button>
      </section>
    )
  }

  onTextChange(e) {
    this.setState({text: e.target.value});
  }

  onAdd() {
    this.props.add(this.state.text);
  }
}

export default AddTodo;

```

```

import React from 'react';
import './Todo.css';

const Todo = ({ todo, toggle, remove }) => {
  return (
    <section className="Todo">
      <p>{todo.text}</p>
      <p className={todo.done ? 'Todo-completed' : 'Todo-uncompleted'} onClick={() =>
toggle(todo.id)}>
        {todo.done ? 'Completed' : 'Uncompleted'}
      </p>
      <button onClick={() => remove(todo.id)}>remove</button>
    </section>
  );
}

export default Todo;

```

```

import React, { Component } from 'react';

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```

import Todo from './Todo';

class TodoList extends Component {
  render() {
    const list = this.props.todos
      .map(todo =>
        <Todo
          key={todo.id}
          todo={todo}
          remove={this.props.remove}
          toggle={this.props.toggle}
        />
      );
    return (
      <section className="TodoList">
        {list}
      </section>
    )
  }
}

export default TodoList;

```

```

import React, { Component } from 'react';
import AddTodo from './components/AddTodo';
import TodoList from './components/TodoList';

class App extends Component {
  constructor(props) {
    super(props);

    this.state = {
      todos: [
        { id: 1, text: 'Read article', done: true },
        { id: 2, text: 'Write letter', done: false },
        { id: 3, text: 'Change passport', done: false },
        { id: 4, text: 'Order pizza', done: true },
      ]
    };

    this.addTodo = this.addTodo.bind(this);
    this.toggleTodo = this.toggleTodo.bind(this);
    this.removeTodo = this.removeTodo.bind(this);
  }

  render() {
    return (
      <section className="App">
        <AddTodo add={this.addTodo} />
        <TodoList todos={this.state.todos} toggle={this.toggleTodo} remove={this.removeTodo}/>
      </section>
    )
  }

  addTodo(text) {
    const newTodo = { id: Date.now(), text, done: false };
    this.setState({ todos: [...this.state.todos, newTodo] });
  }
}

```

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}

toggleTodo(id) {
  this.setState({
    todos: this.state.todos.map(todo => {
      if (todo.id !== id) {
        return todo;
      }
      return { ...todo, done: !todo.done };
    })
  });
}

removeTodo(id) {
  const index = this.state.todos.findIndex(todo => todo.id === id);
  const todos = this.state.todos;
  if (index > -1) {
    this.setState({ todos: [...todos.slice(0, index), ...todos.slice(index + 1)] });
  }
}

export default App;
```