```
import React, { Component } from 'react';
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.store.dispatch({ type: 'ADD_TODO', text: this.state.text, id: Date.now() });
}
}
export default AddTodo;
import React, { Component } from 'react';
import './Todo.css';
class Todo extends Component {
 constructor(props) {
  super(props);
  this.toggle = this.toggle.bind(this);
  this.remove = this.remove.bind(this);
 }
 render() {
  const { todo } = this.props;
  return (
   <section className="Todo">
    {todo.text}
    {todo.done? 'Completed': 'Uncompleted'}
    <button on Click={this.remove}>remove</button>
   </section>
  );
 }
 toggle() {
```

```
this.props.store.dispatch({ type: 'TOGGLE_TODO', id: this.props.todo.id });
 }
 remove() {
  this.props.store.dispatch({ type: 'REMOVE_TODO', id: this.props.todo.id });
}
export default Todo;
import React, { Component } from 'react';
import Todo from './Todo';
class TodoList extends Component {
 constructor(props) {
  super(props);
  props.store.subscribe(() => this.forceUpdate());
 render() {
  const list = this.props.store.getState()
   .map(todo =>
     <Todo
      store={this.props.store}
      key={todo.id}
      todo={todo}
     />
   );
  return (
    <section className="TodoList">
     {list}
    </section>
  );
}
export default TodoList;
const todos = (state = [], action) => {
 switch(action.type) {
  case 'ADD_TODO':
   return [...state, { id: action.id, text: action.text, done: false }];
  case 'TOGGLE_TODO':
    return state.map(todo => {
     if (todo.id !== action.id) {
      return todo;
     }
     return { ...todo, done: !todo.done };
  case 'REMOVE_TODO':
    const index = state.findIndex(todo => todo.id === action.id);
   return index >= 0
     ? [...state.slice(0, index), ...state.slice(index + 1)]
     : state;
  default:
   return state;
 }
export { todos };
```