Instructions for TVC Redux without React Counter App

```
1. Install redux
$ yarn add redux
$ yarn start
ог...
$ npm install redux
$ npm start
2. Make action creators:
create actions/counter.js
export const incrementCounter = () => {
  return { type: 'INCREMENT_COUNTER' }
export const decrementCounter = () => {
  return { type: 'DECREMENT_COUNTER' }
}
export const resetCounter = () => {
  return { type: 'RESET COUNTER' }
}
export const setCounter = (num) => {
  return { type: 'SET COUNTER', payload: num }
}
3. Import actions
add to index.js line 5
import {
  incrementCounter,
  decrementCounter,
  resetCounter,
  setCounter
} from './actions/counter'
```

4. Test actions in browser add to index.js line 42 console.log(incrementCounter()) Test for all buttons. 5. Add reducers create reducers/index.js import { combineReducers } from 'redux' import { counter } from './counter' const reducers = combineReducers({ counter }) export default reducers create reducers/counter.js const INITIAL COUNTER = { number: 0 }

export function counter(state = INITIAL_COUNTER, action) {

console.log('state', state)
console.log('action', action)

return state

}

```
create store/configureStore.js
import { createStore } from 'redux'
import reducers from '../reducers'
export default function configureStore() {
  return createStore(
    reducers,
    window.__REDUX_DEVTOOLS_EXTENSION_ &&
    window.__REDUX_DEVTOOLS_EXTENSION__()
  )
}
add to index.js line 14
import configureStore from './store/configureStore'
const store = configureStore()
Test to make sure no errors.
6. Test reducer call
change index.js line 43
```

store.dispatch(incrementCounter())

Do rest of case statements and test.

7. Implement reducers

```
change reducers/counter.js line 4
let newState
switch (action.type) {
  case 'INCREMENT COUNTER':
    return { number: state.number + 1}
  case 'DECREMENT_COUNTER':
    newState = Object.assign({}, state)
    if (newState.number>1)
      newState.number--
    else
      newState.number = 0
    return newState
  case 'RESET COUNTER':
    return INITIAL COUNTER
  case 'SET COUNTER':
    newState = Object.assign({}, state)
    newState.number = action.payload
    newState = { ...state, number: action.payload }
    return newState
  default:
    return state
}
change/add index.js line 63
let newNum = Math.round($counterSetField.value)
if (newNum >= 0)
  store.dispatch(setCounter(newNum))
$counterSetField.value = 0
add index.js line 63
console.log('counter', store.getState().counter.number)
uncomment index.js line 29
const $counterSetField = document.querySelector('#counter-
    set-field')
```

```
Test in browser.
```

8. Implement UI

```
change index.js line 19
```

```
const updateCounter = () => $counterDisplay.innerHTML =
    store.getState().counter.number
```

change index.js line 23

store.subscribe(updateCounter)

uncomment index.js line 28

remove index.js line 66

console.log('counter', store.getState().counter.number)

Test fully functioning app.