So that we can access the router history outside of the Router component you need to create your own history object. We can reference this object from the AuthOProvider's onRedirectCallback.

We can then use the withAuthenticationRequired HOC (Higher Order Component) to create a ProtectedRoute component that redirects anonymous users to the login page, before returning them to the protected route:

```
import React from 'react';
import { Router, Route, Switch } from 'react-router-dom';
import { AuthOProvider, withAuthenticationRequired } from '@authO/authO-react';
import { createBrowserHistory } from 'history';
import Profile from './Profile';
export const history = createBrowserHistory();
const ProtectedRoute = ({ component, ...args }) => (
  <Route component={withAuthenticationRequired(component)} {...args} />
);
const onRedirectCallback = (appState) => {
  // Use the router's history module to replace the url
  history.replace(appState?.returnTo || window.location.pathname);
};
export default function App() {
  return (
    <Auth0Provider
      domain="YOUR AUTH0 DOMAIN"
      clientId="YOUR_AUTHO_CLIENT_ID"
      redirectUri={window.location.origin}
      onRedirectCallback={onRedirectCallback}
      {/* Don't forget to add the history to your router */}
      <Router history={history}>
        <Switch>
          <Route path="/" exact />
          <ProtectedRoute path="/profile" component={Profile} />
        </Switch>
      </Router>
    </Auth@Provider>
  );
}
```

See react-router example app