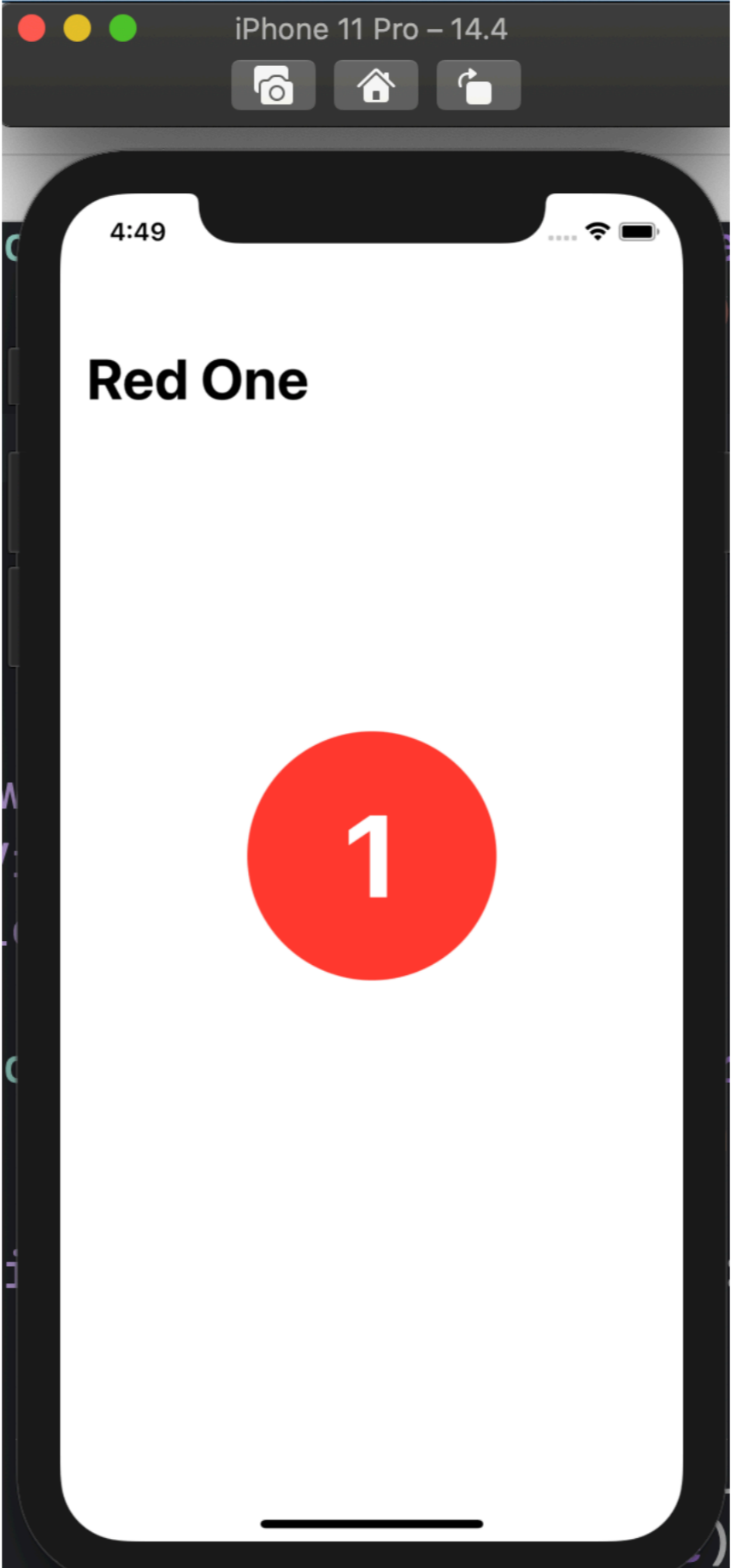


Navigation view and link

遞迴畫面設計

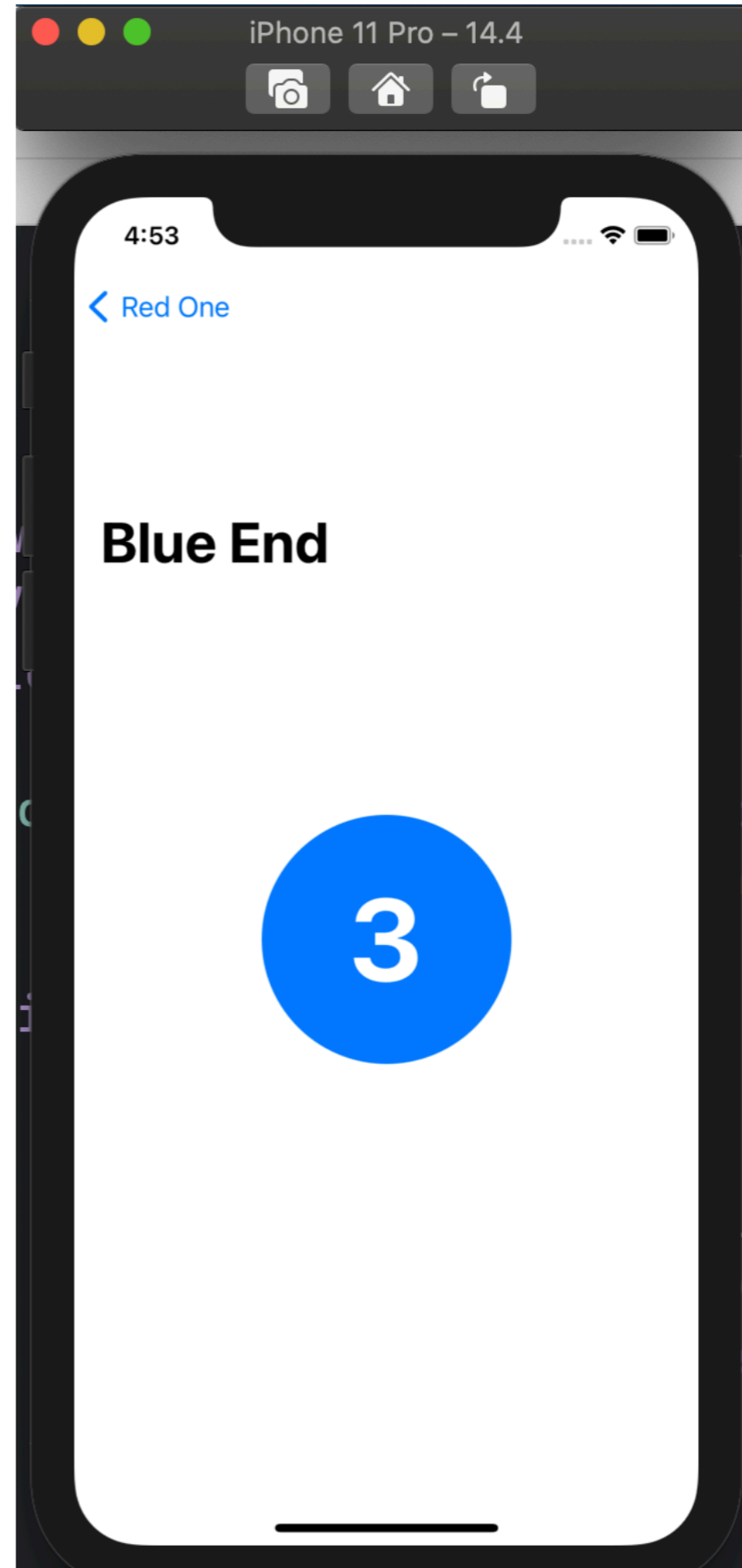
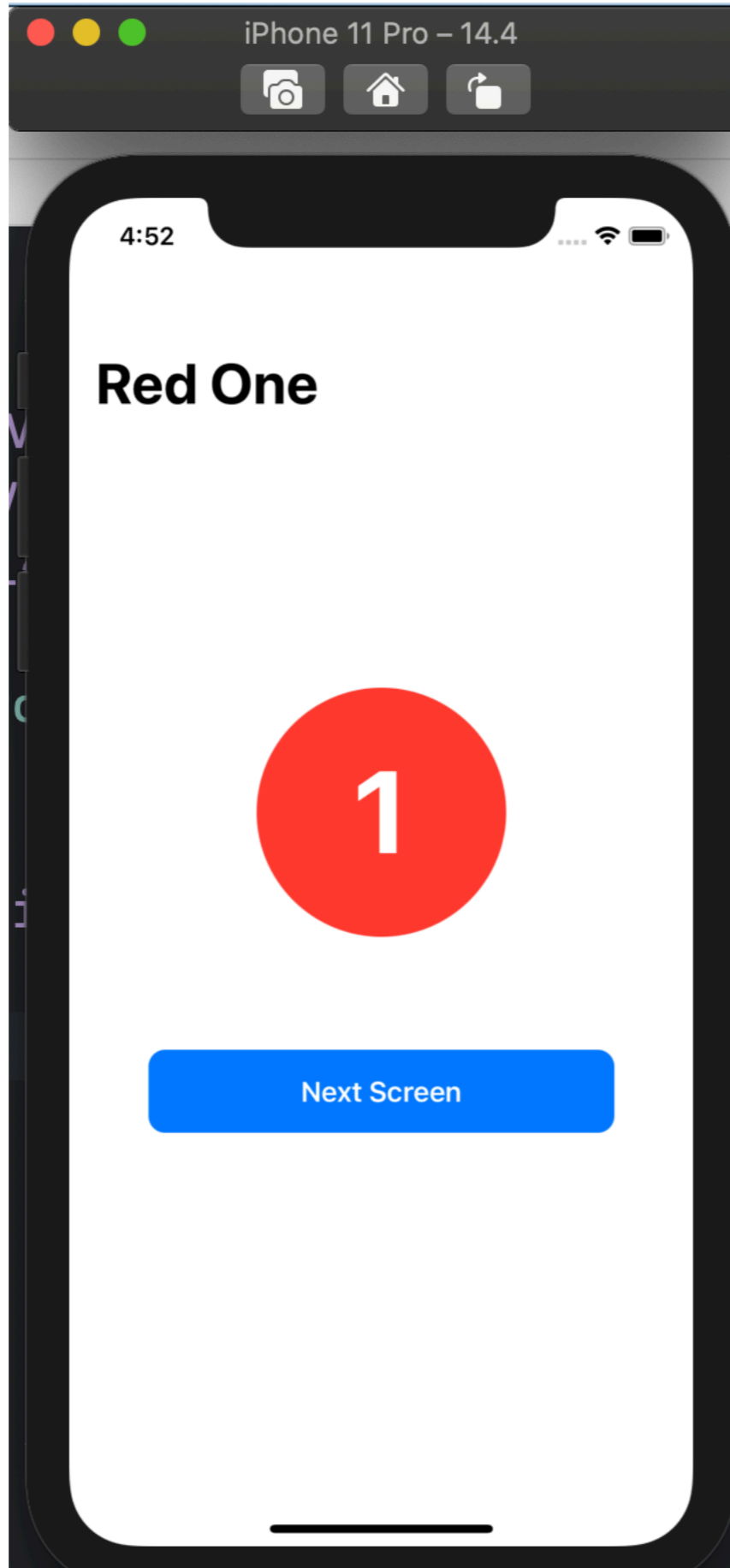
步驟一

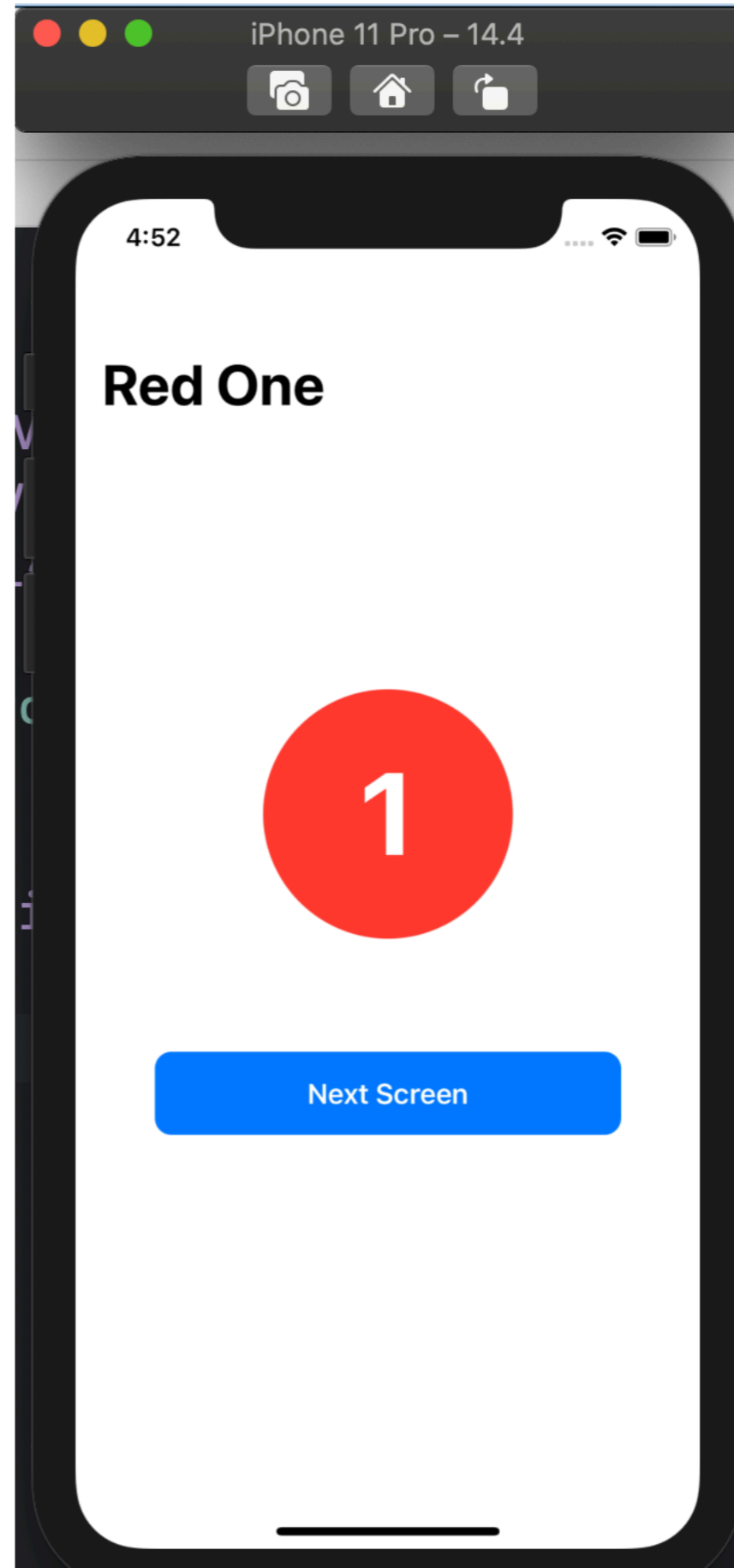
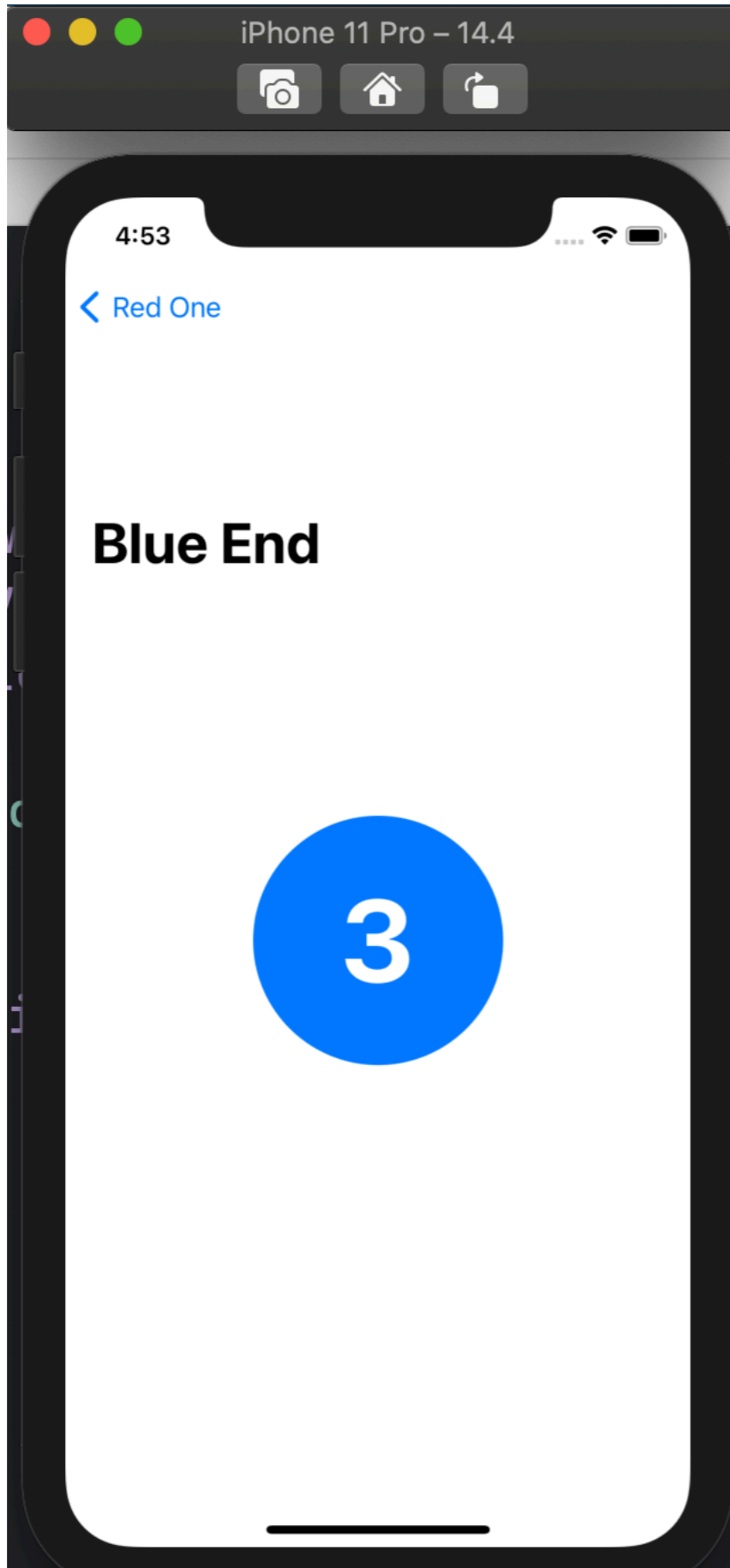


```
9
10 struct ContentView: View {
11     var body: some View {
12         NavigationView{
13             VStack{
14                 CircleNumberView(color: .red, number: 1)
15                     .navigationTitle("Red One")
16                     .offset(y: -60)
17             }
18         }
19     }
20 }
21
```

```
struct CircleNumberView: View {
  var color: Color
  var number: Int
  var body: some View{
    ZStack {
      Circle()
        .frame(width: 150, height: 150)
        .foregroundColor(color)
      Text("\(number)")
        .foregroundColor(.white)
        .font(.system(size: 70, weight: .bold ))
    }
  }
}
```

步驟二

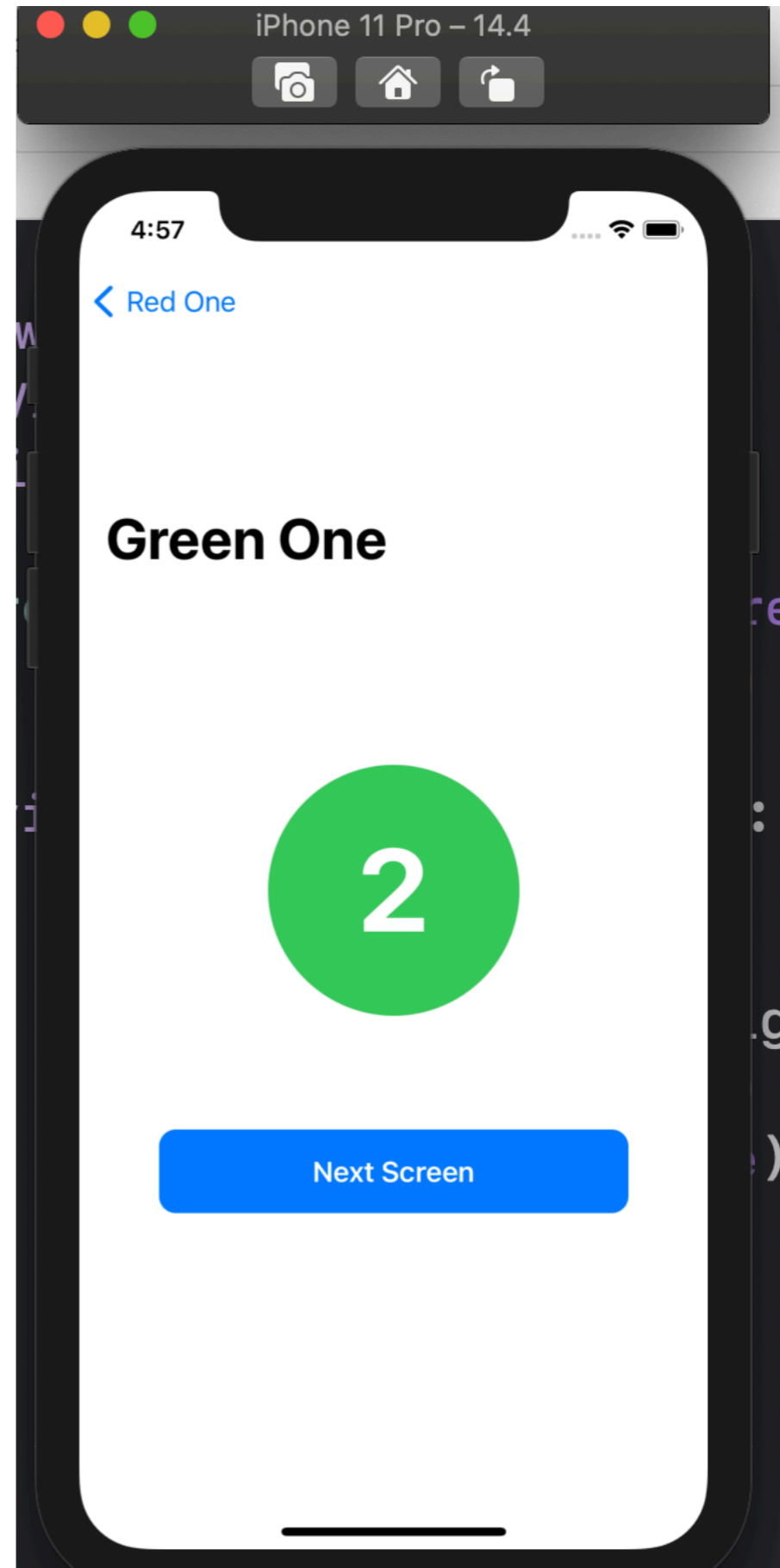
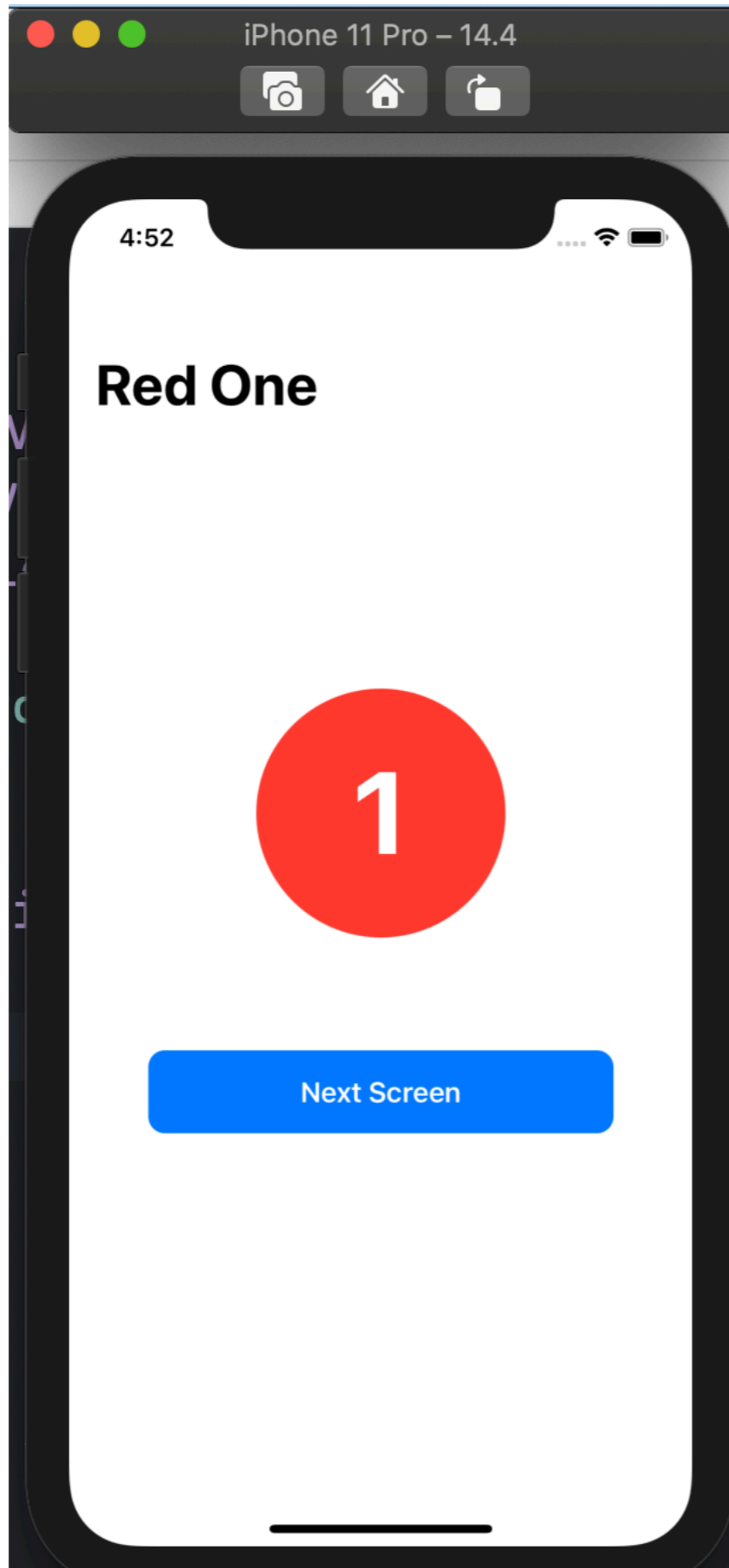


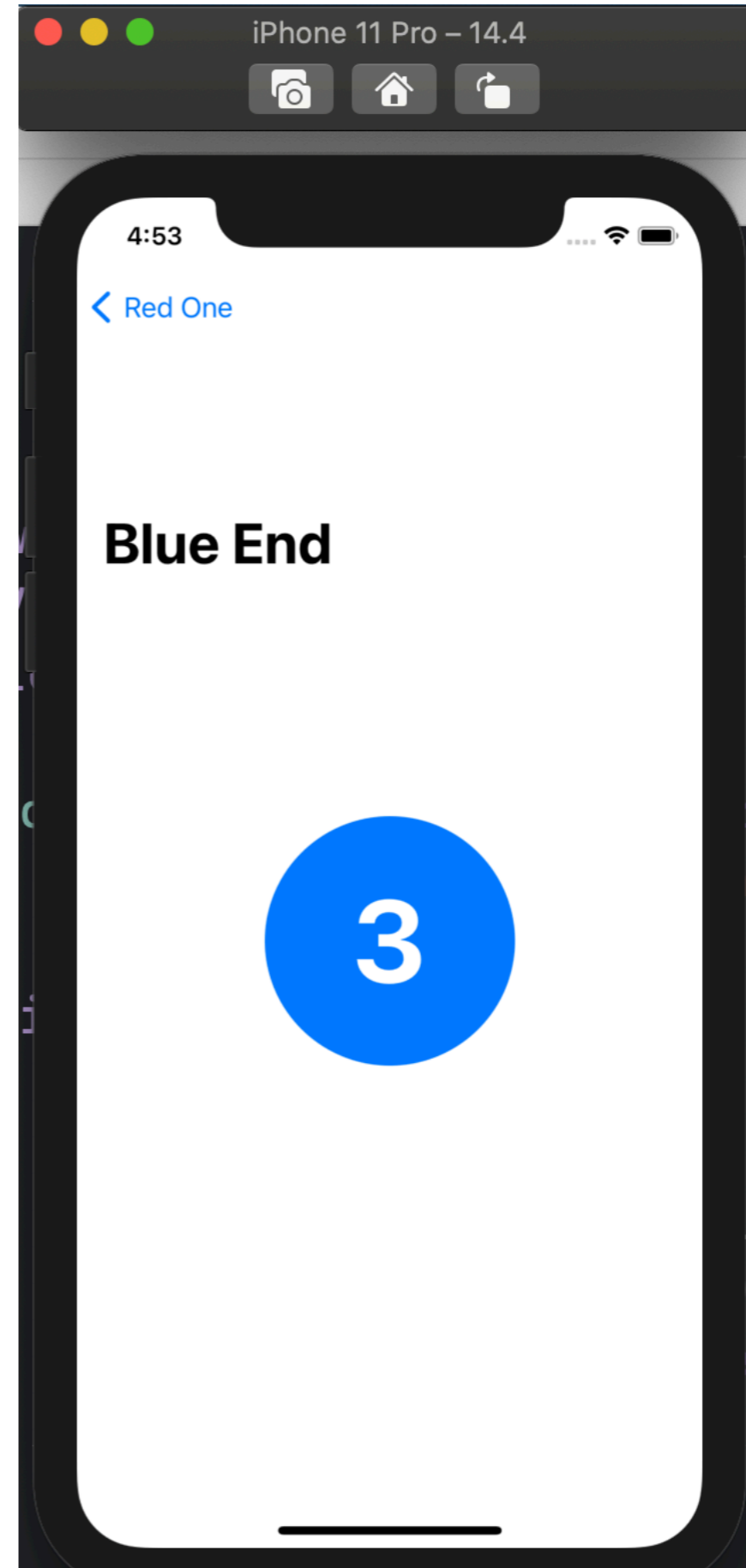
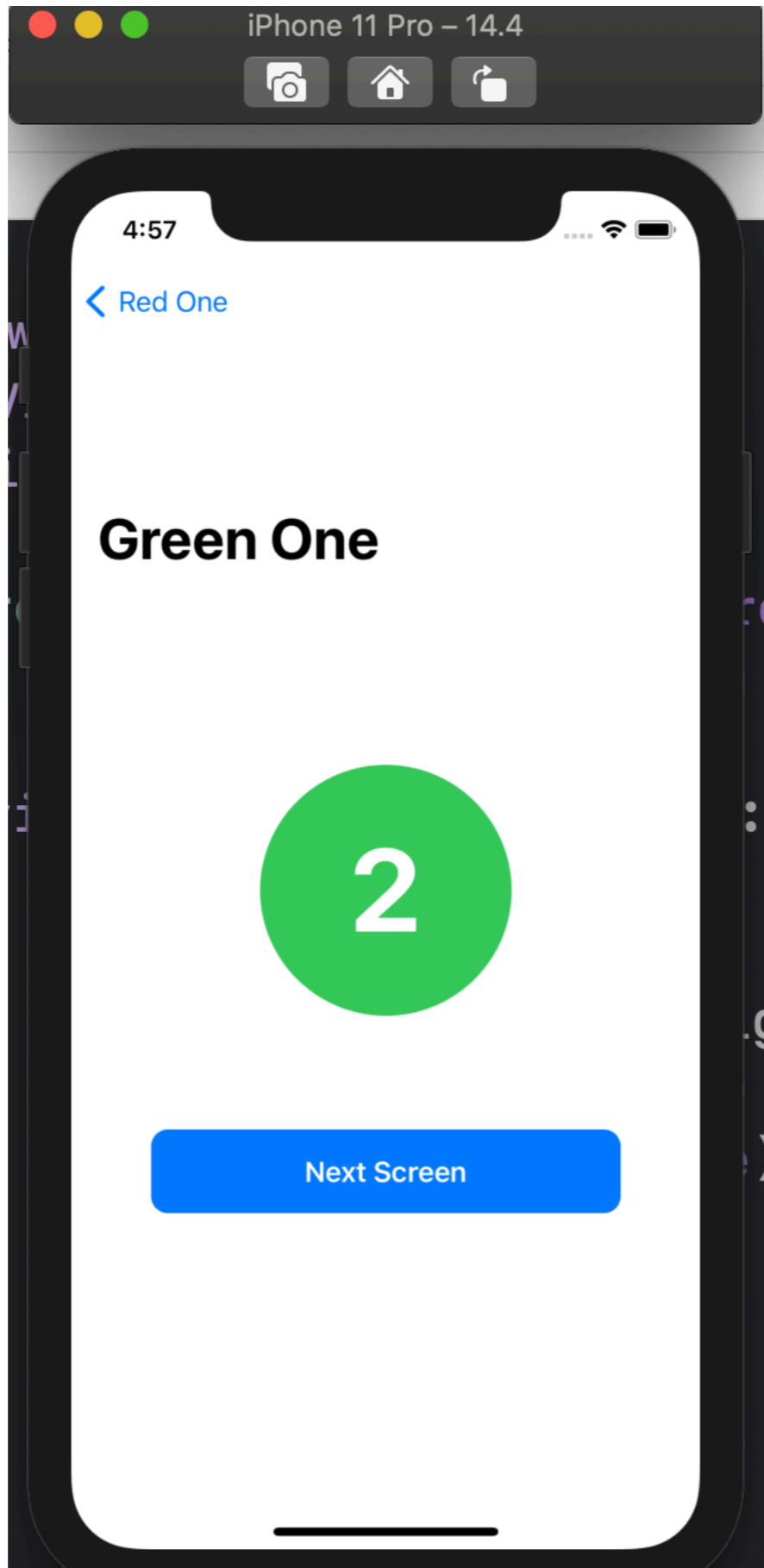


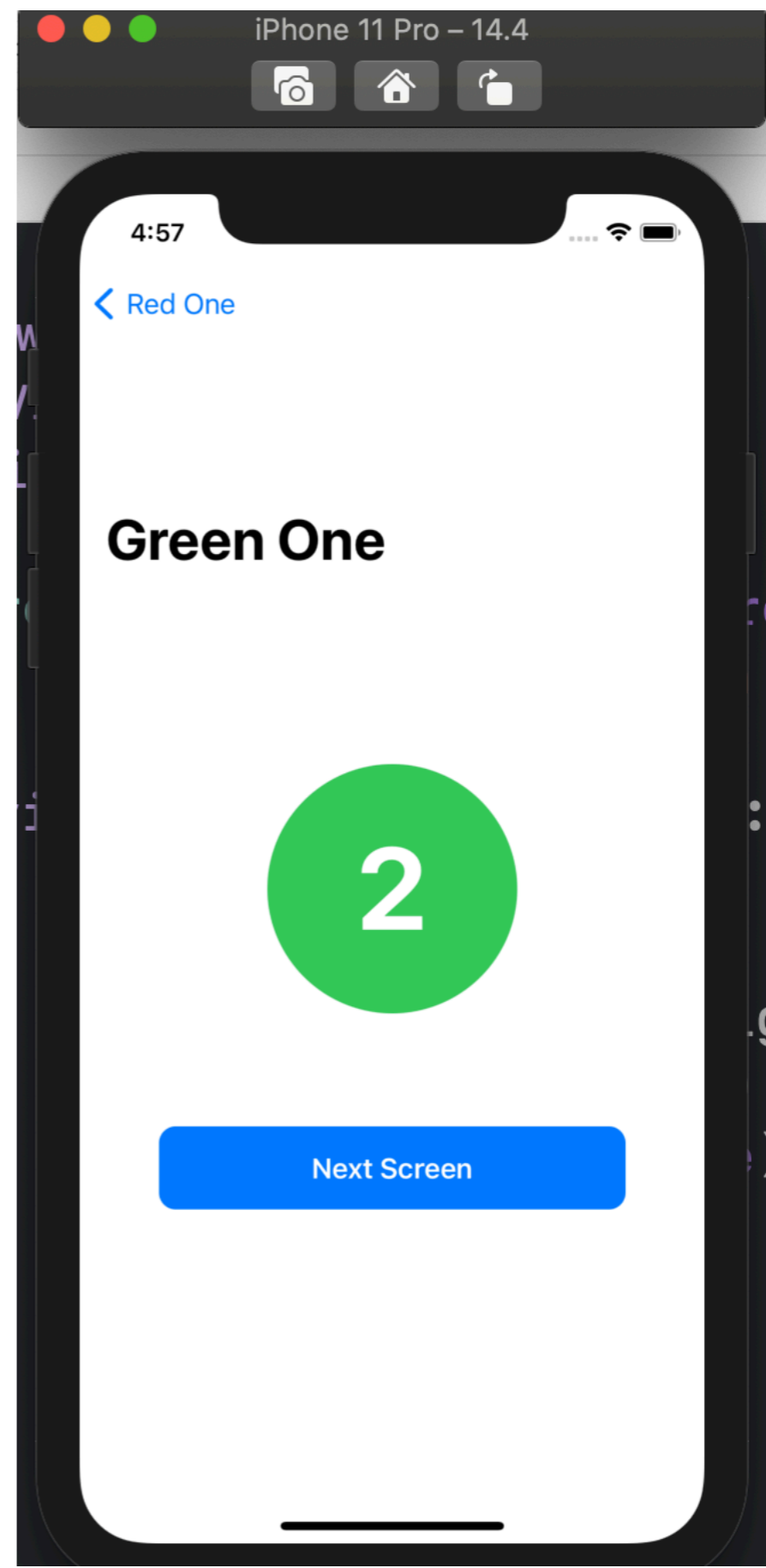
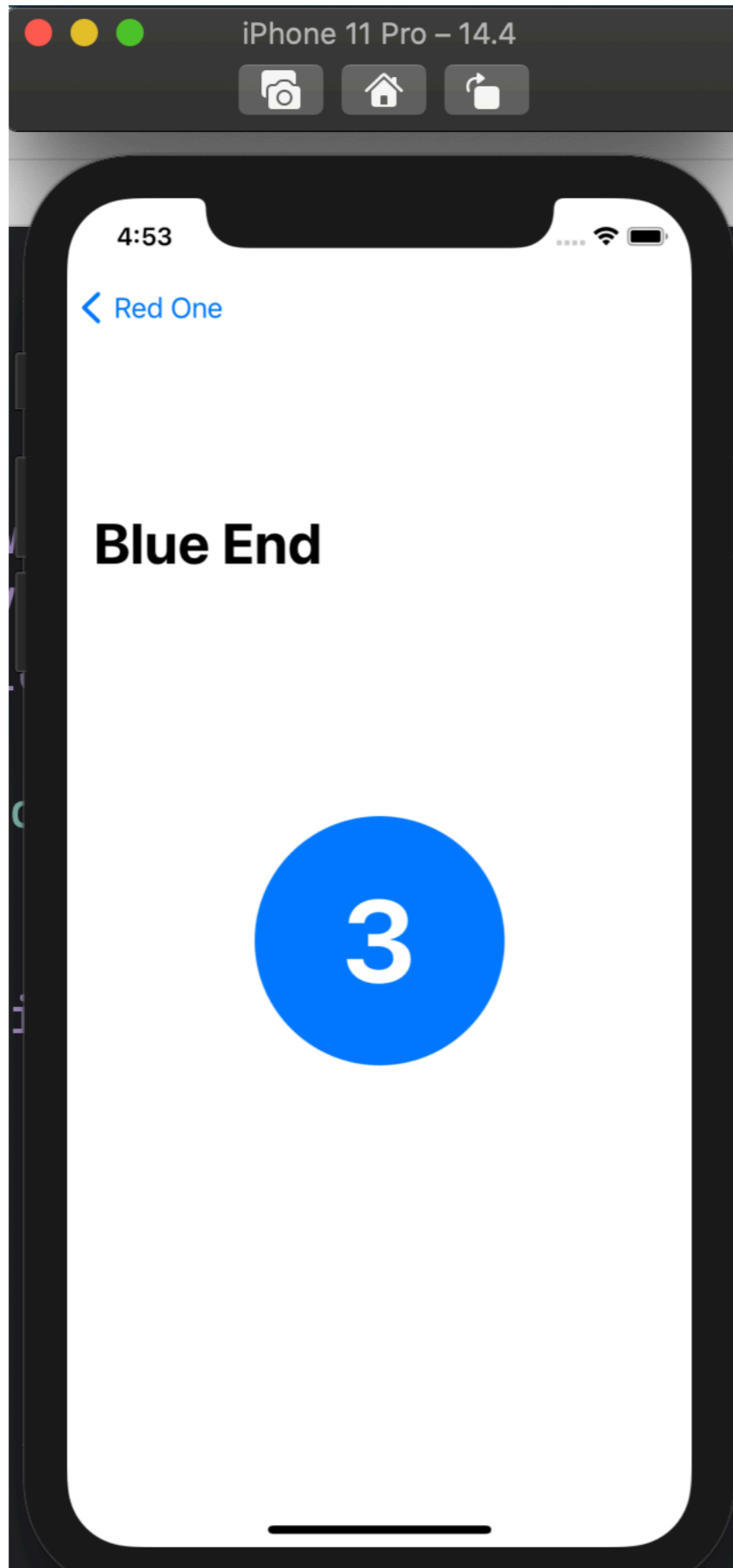
```
struct ContentView: View {
    var body: some View {
        NavigationView{
            VStack{
                CircleNumberView(color: .red, number: 1)
                    .navigationTitle("Red One")
                    .offset(y: -60)
                NavigationLink(destination: TailView(), label: {
                    Text("Next Screen")
                        .bold()
                        .frame(width: 280, height: 50)
                        .background(Color.blue)
                        .foregroundColor(.white)
                        .cornerRadius(10)
                })
            }
        }
    }
}
```

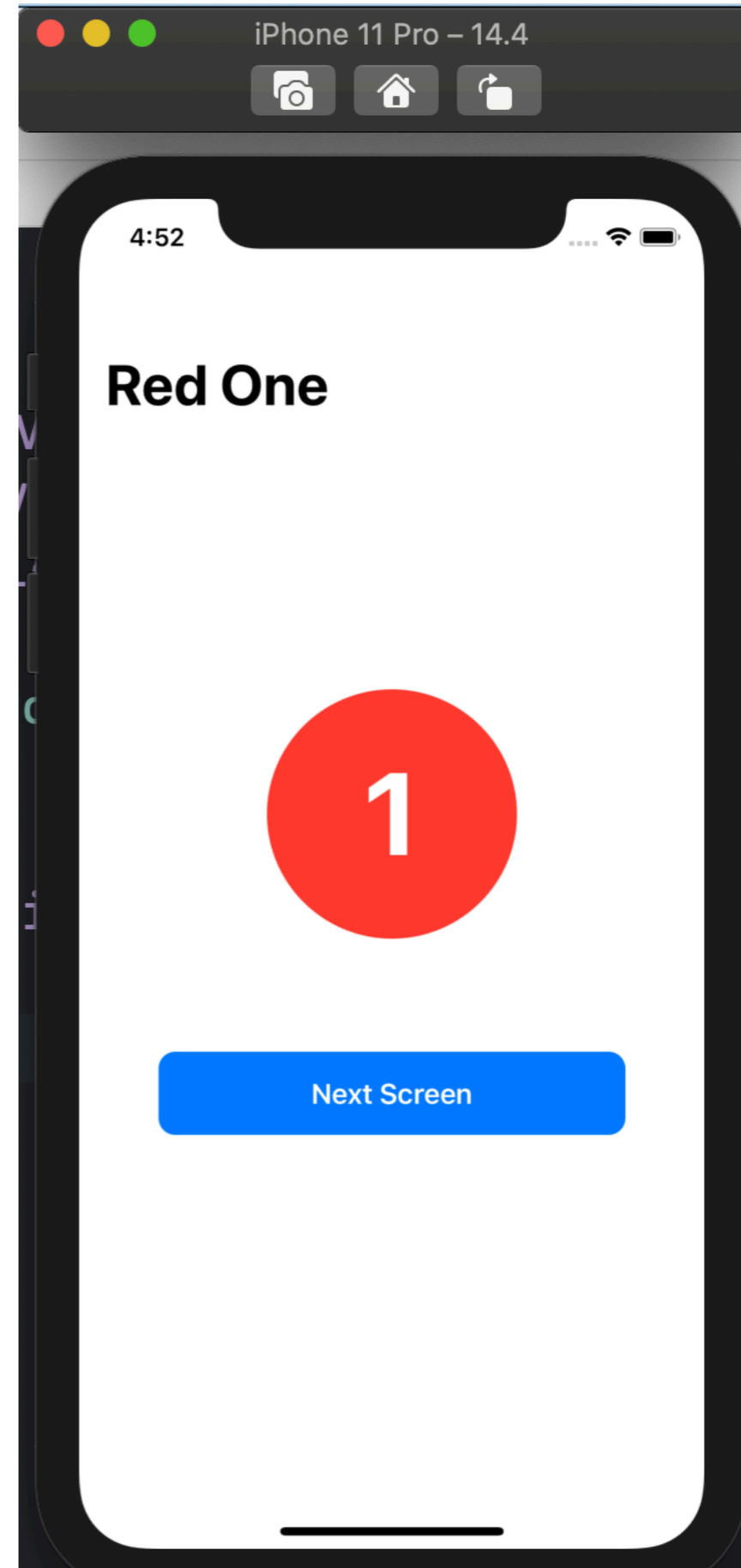
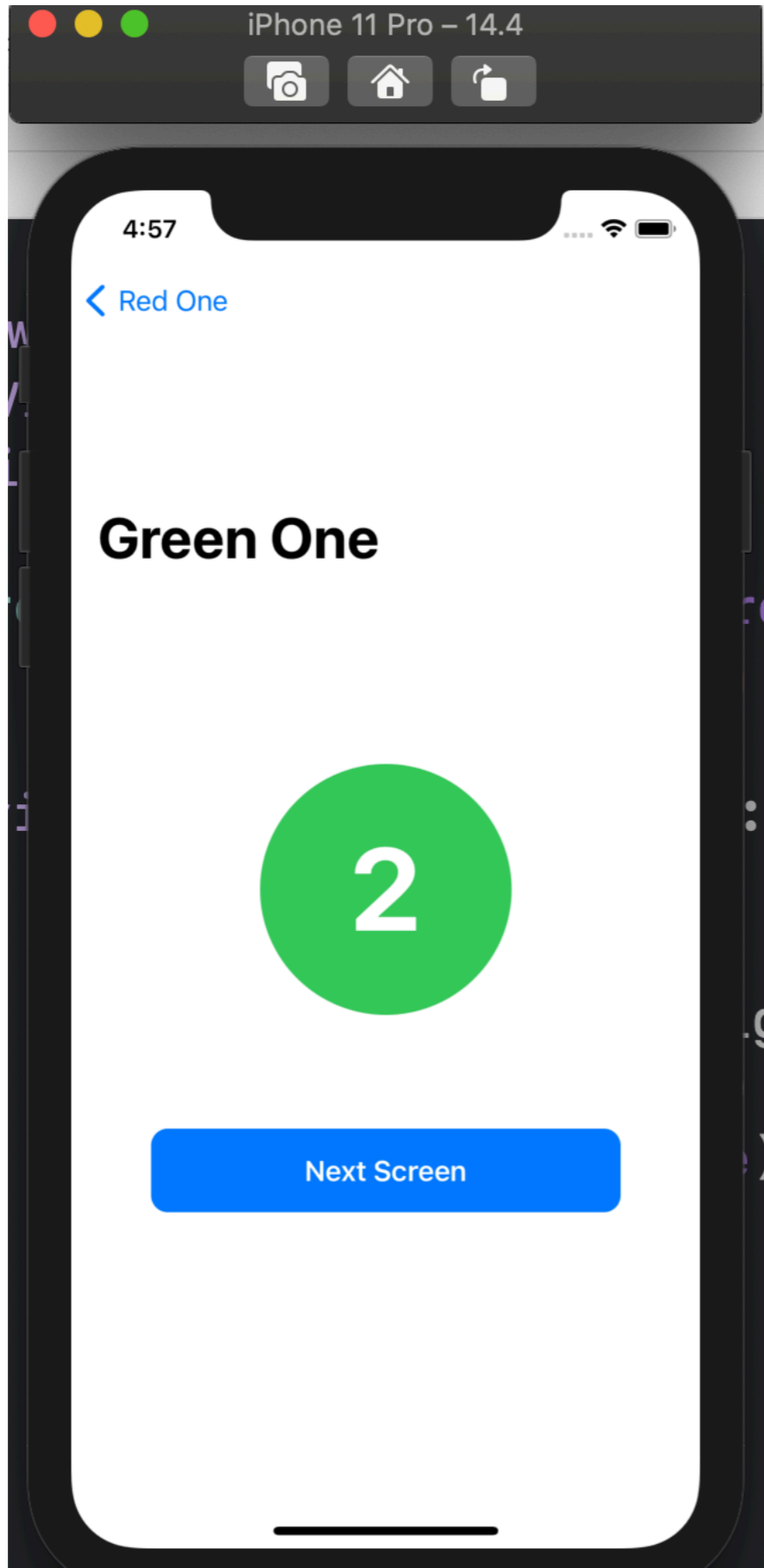
```
struct TailView: View {
  var body: some View {
    NavigationView{
      VStack{
        CircleNumberView(color: .blue, number: 3)
          .navigationTitle("Blue End")
          .offset(y: -60)
      }
    }
  }
}
```

步驟三









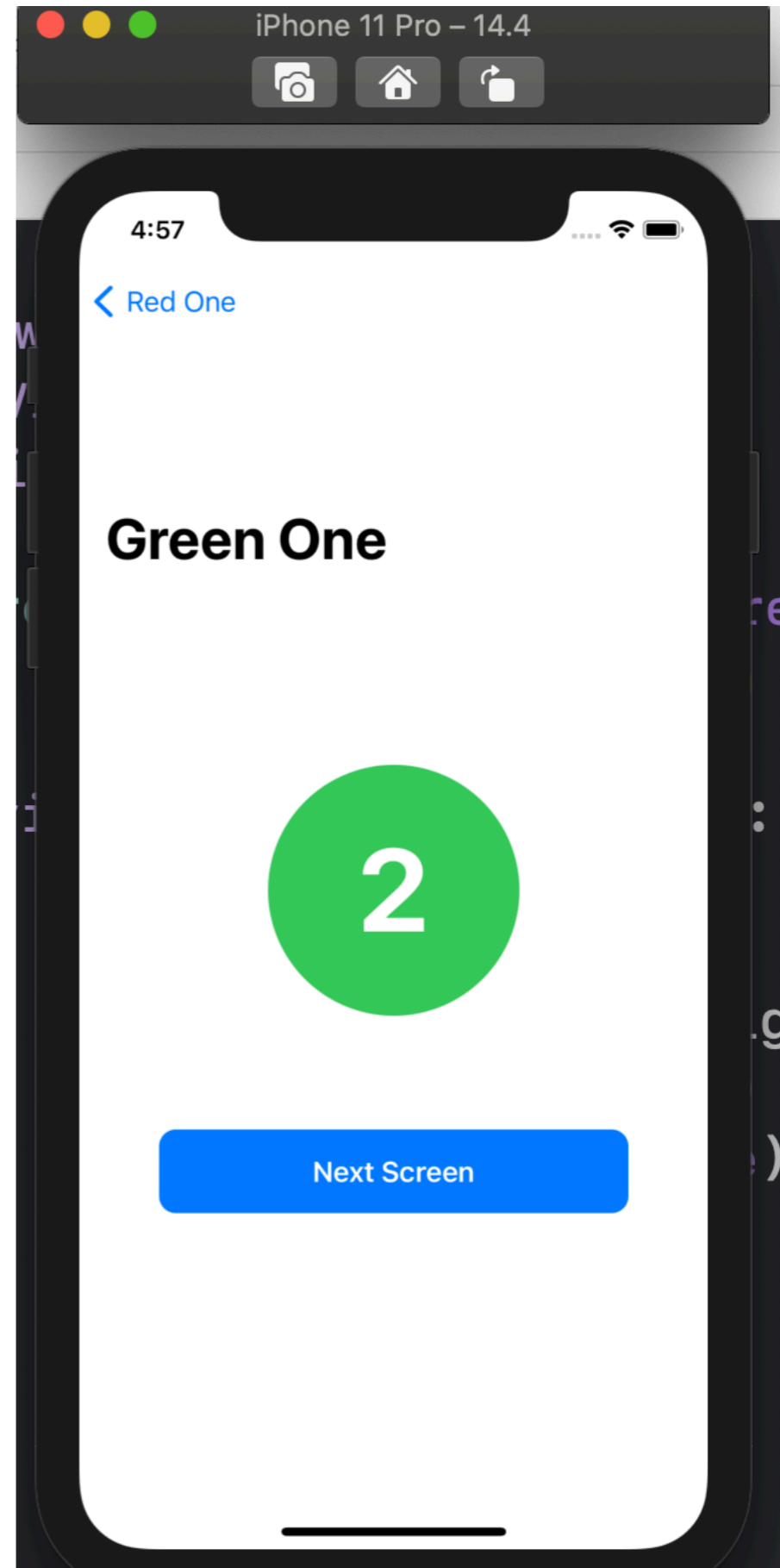
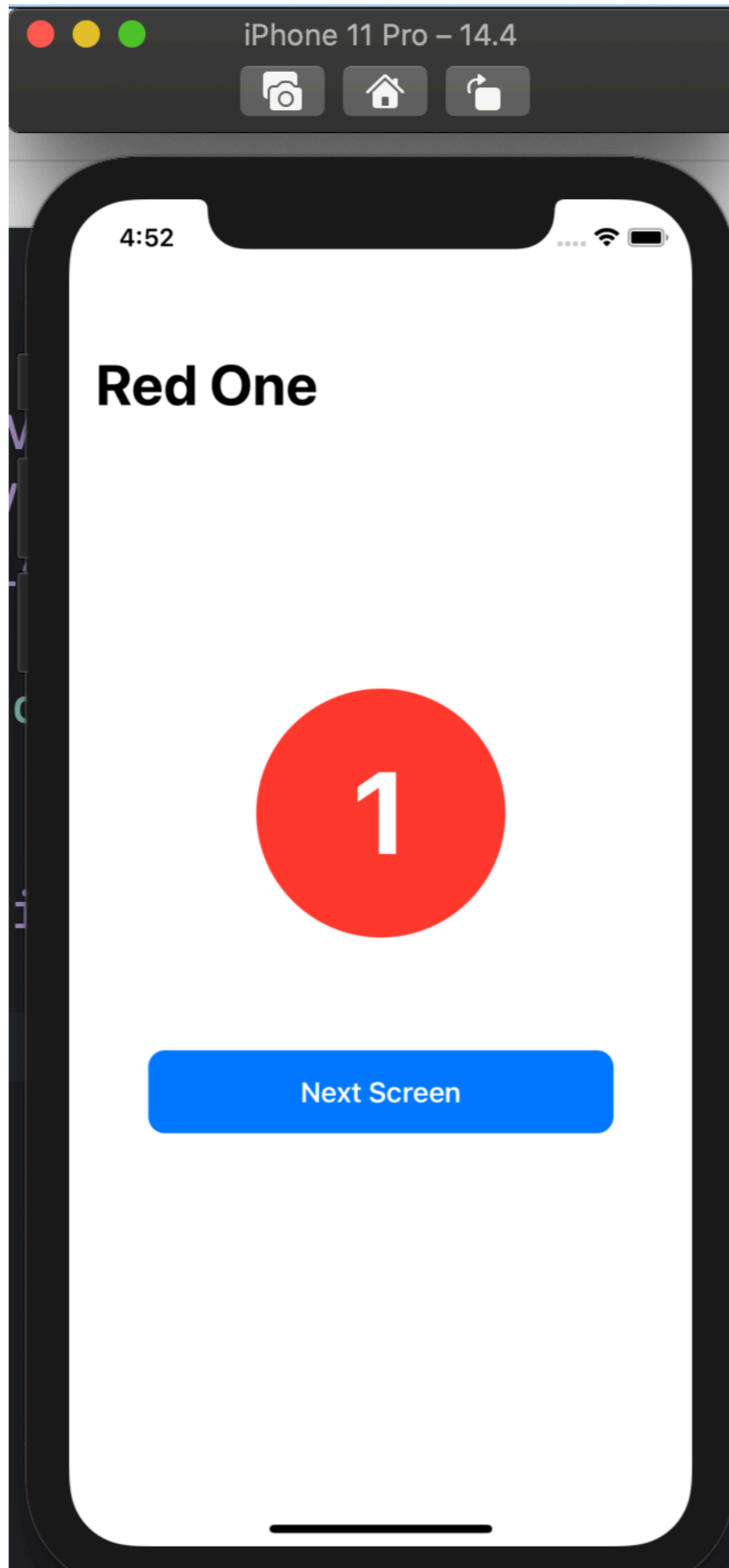
```
struct ContentView: View {
    var body: some View {
        NavigationView{
            VStack{
                CircleNumberView(color: .red, number: 1)
                    .navigationTitle("Red One")
                    .offset(y: -60)
                NavigationLink(destination: NodeView(), label: {
                    Text("Next Screen")
                    .bold()
                    .frame(width: 280, height: 50)
                    .background(Color.blue)
                    .foregroundColor(.white)
                    .cornerRadius(10)
                })
            }
        }
    }
}
```

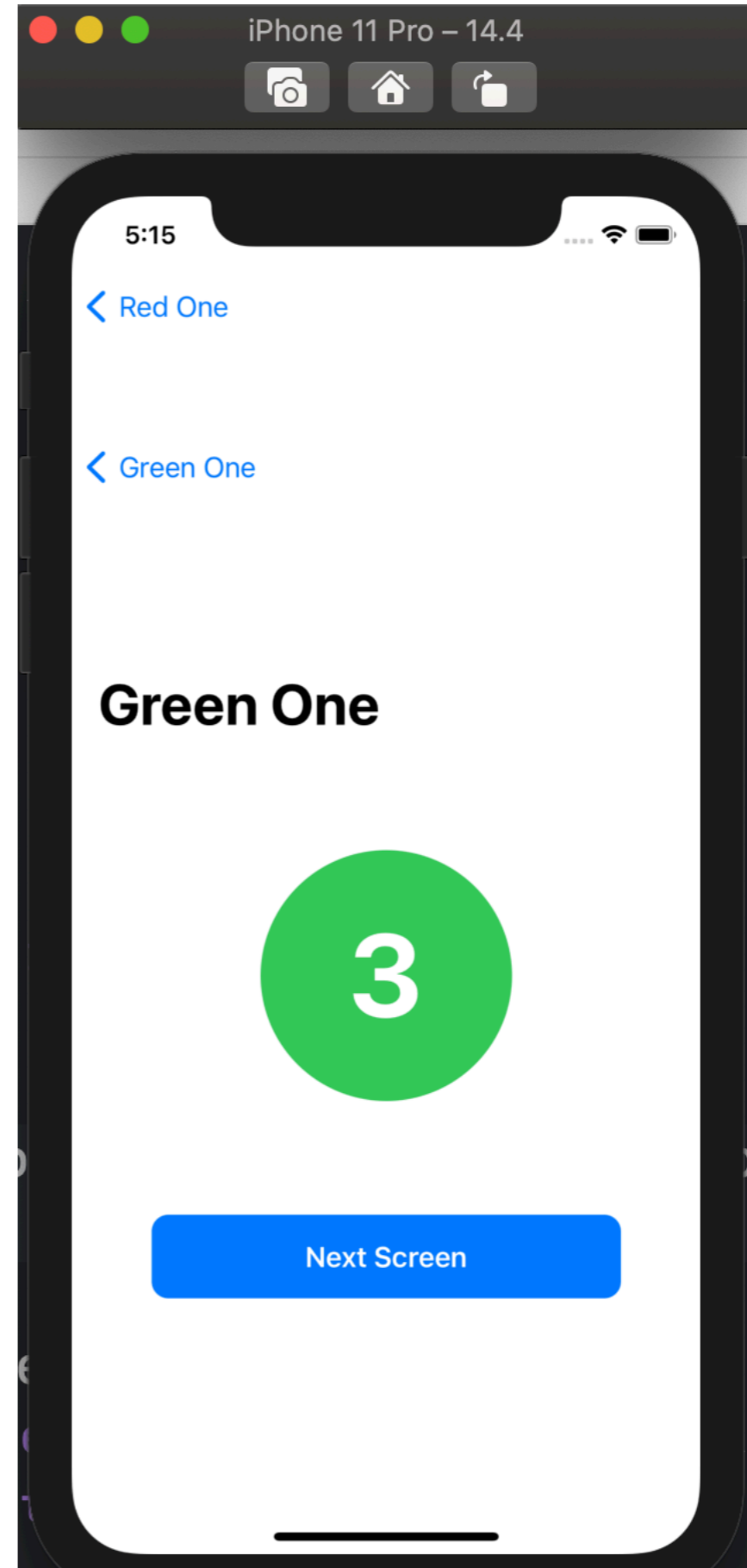
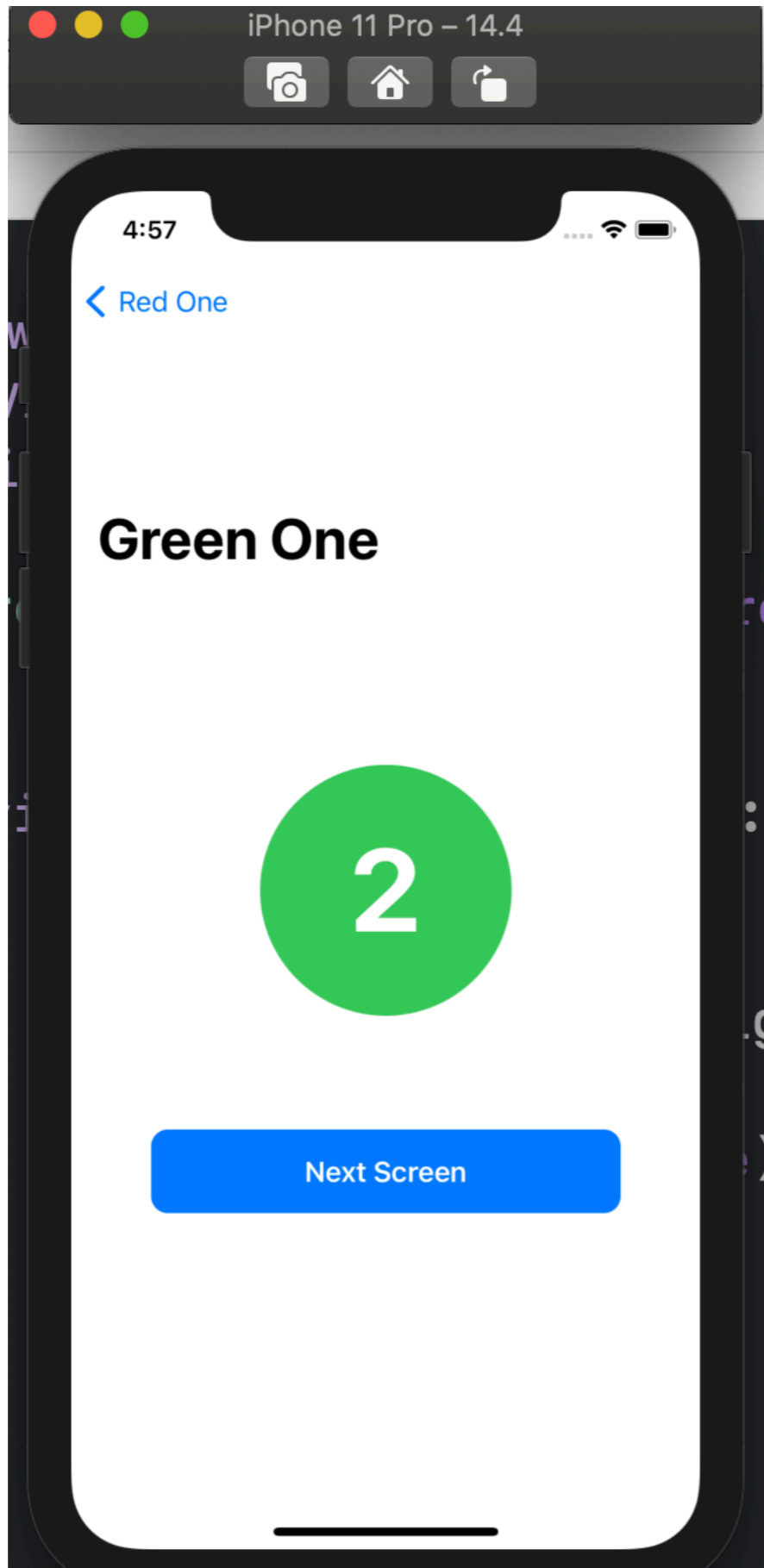
```
struct NodeView: View {
    var body: some View {
        NavigationView{
            VStack{
                CircleNumberView(color: .green, number: 2)
                    .navigationTitle("Green One")
                    .offset(y: -60)
                NavigationLink(destination: TailView(), label: {
                    Text("Next Screen")
                    .bold()
                    .frame(width: 280, height: 50)
                    .background(Color.blue)
                    .foregroundColor(.white)
                    .cornerRadius(10)
                })
            }
        }
    }
}
```

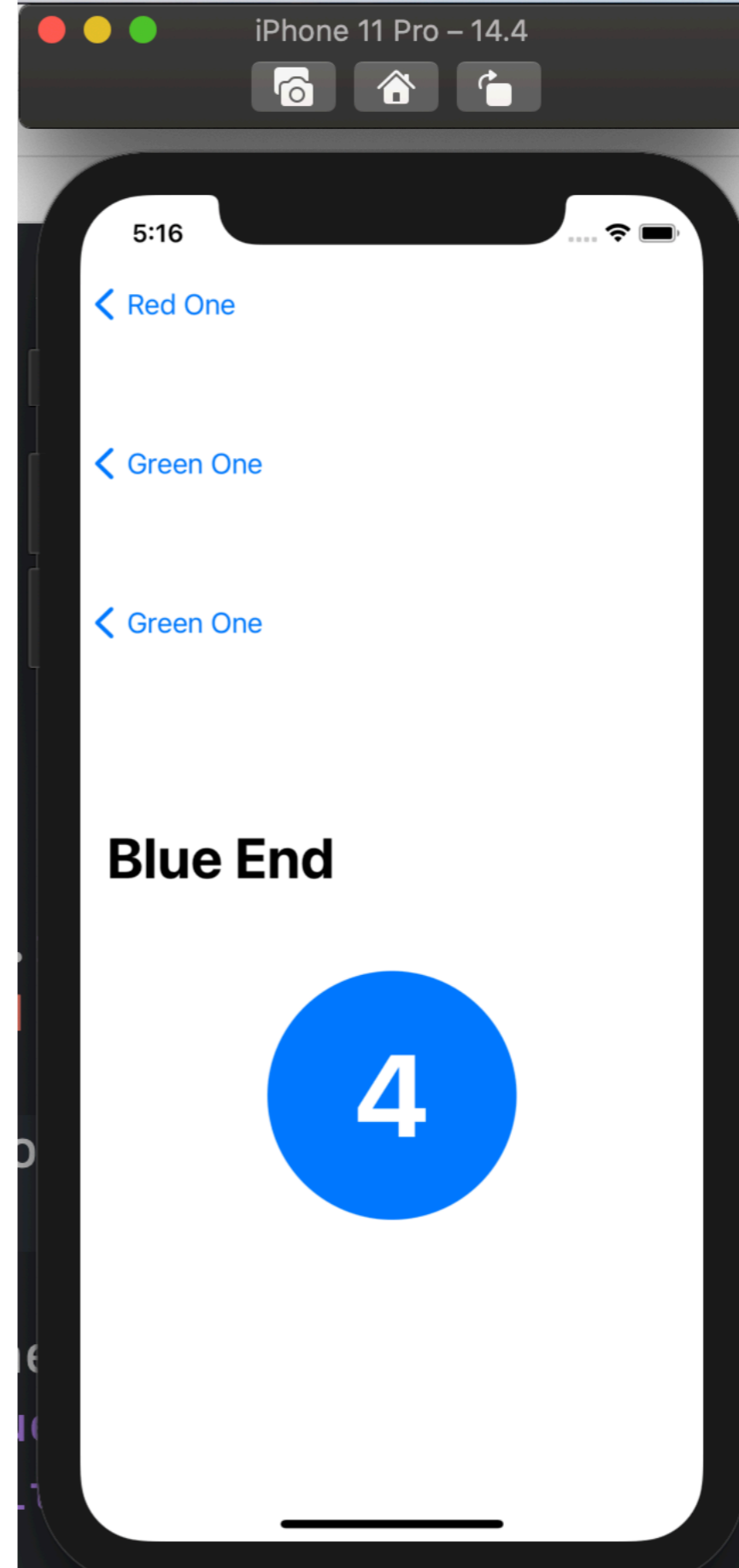
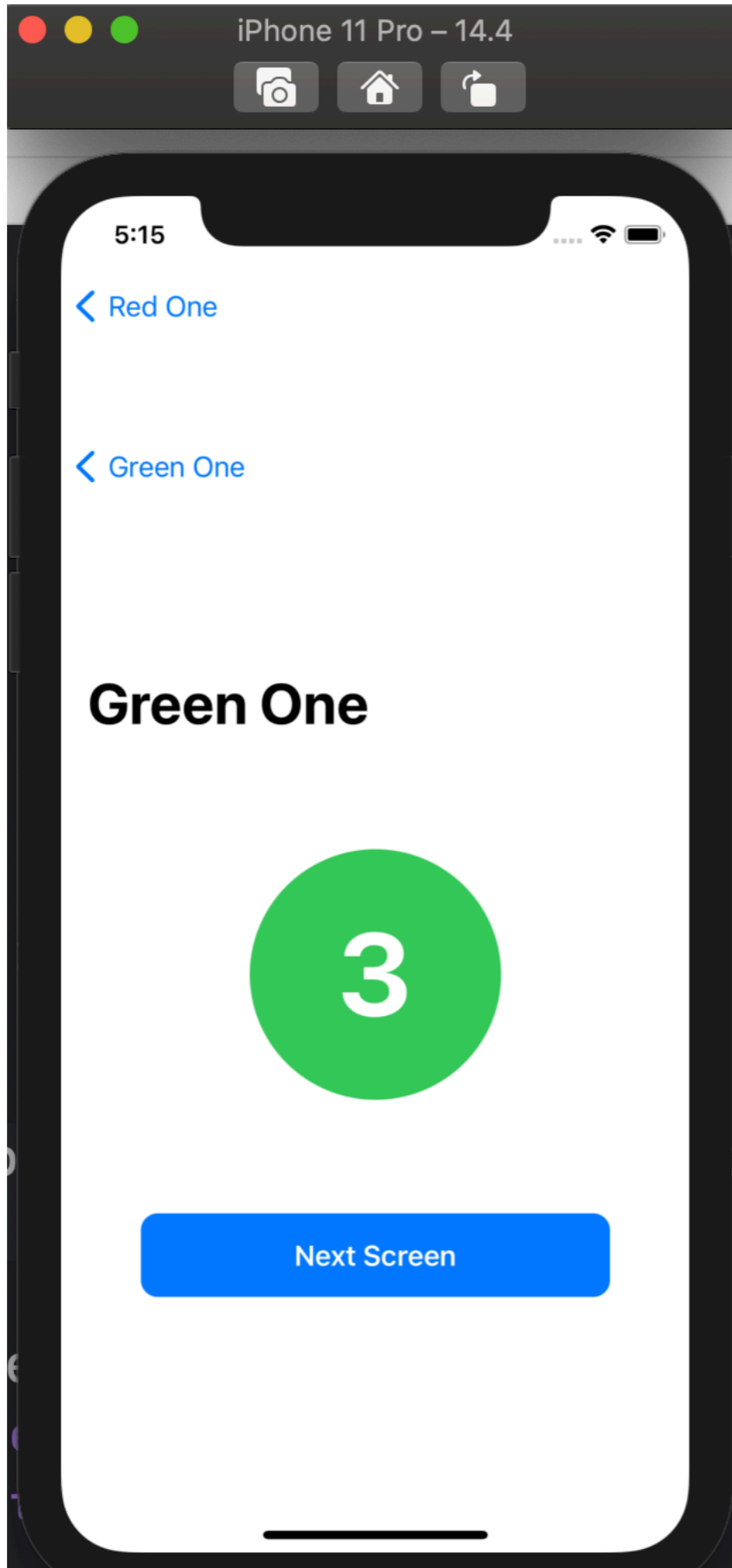
步驟四、使用遞迴架構 設計四個畫面

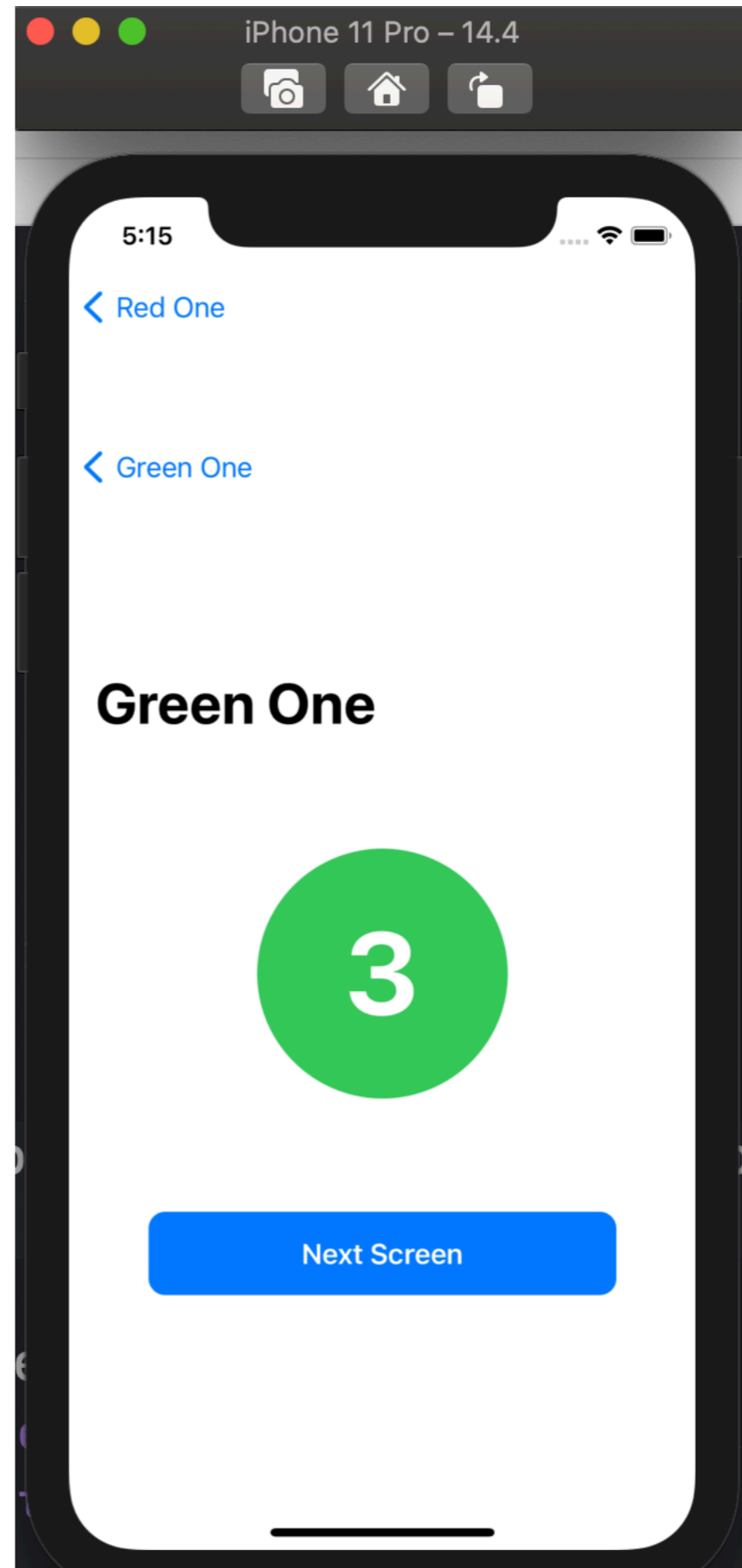
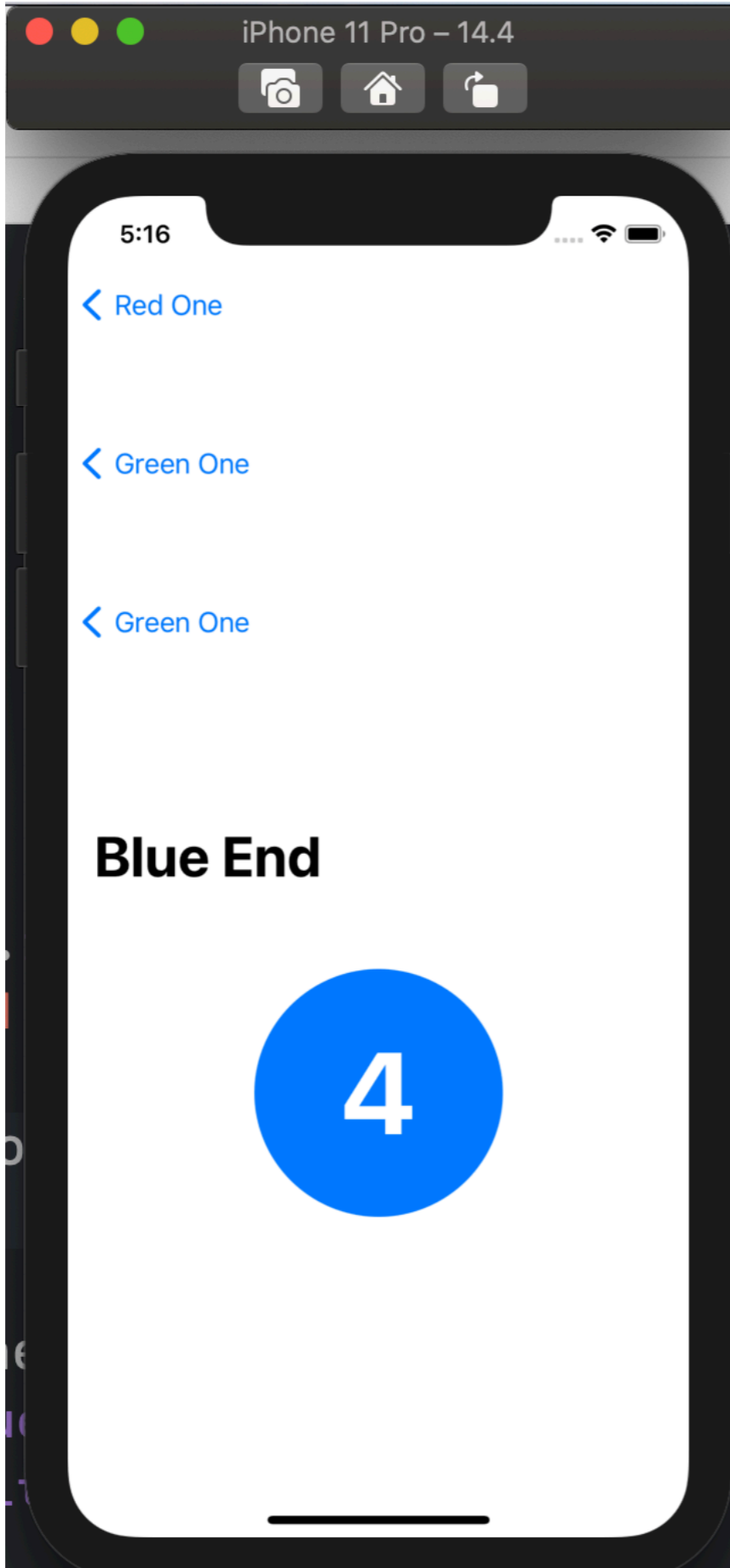
$$\text{fac}(5) = 5!$$

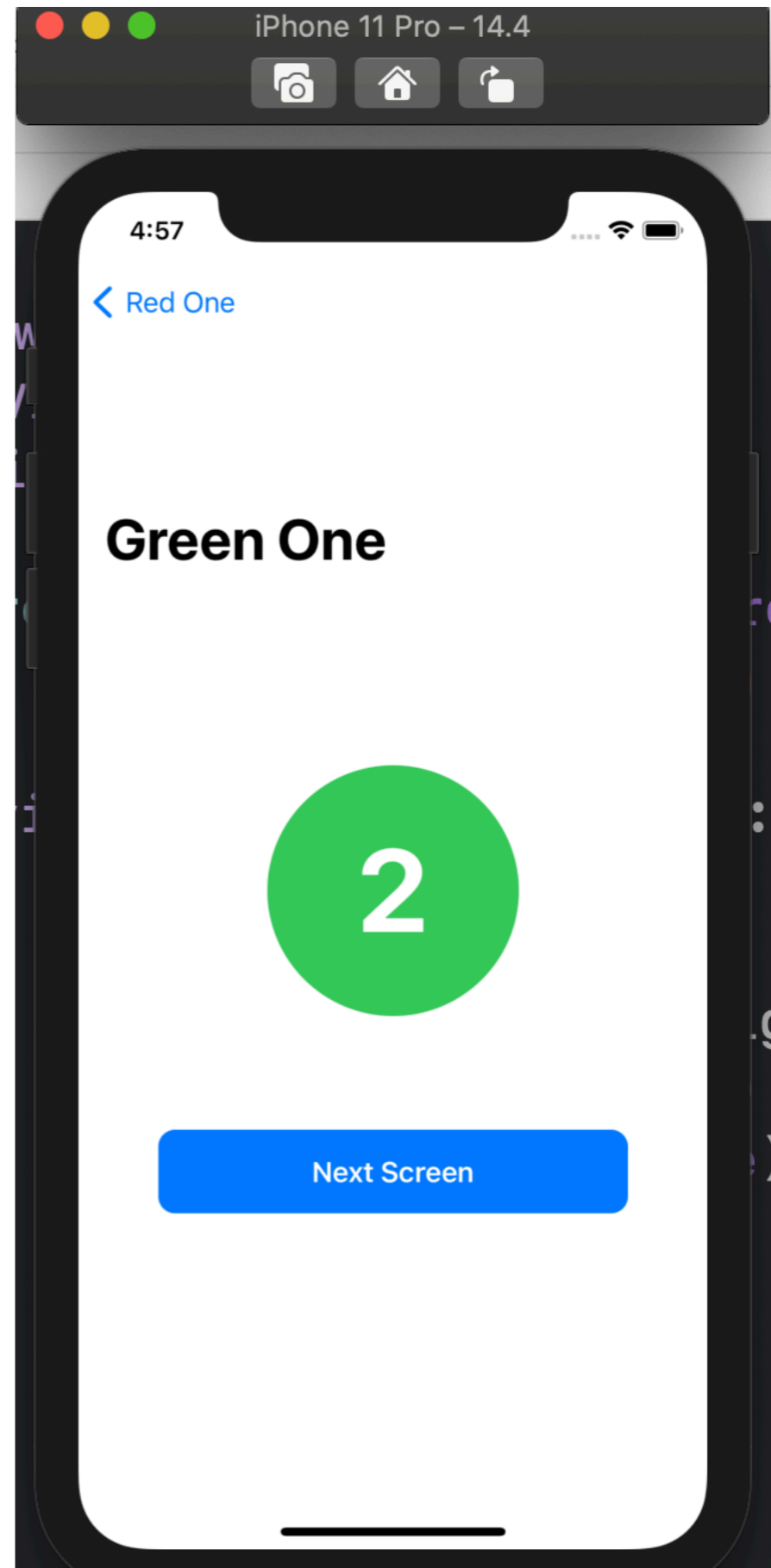
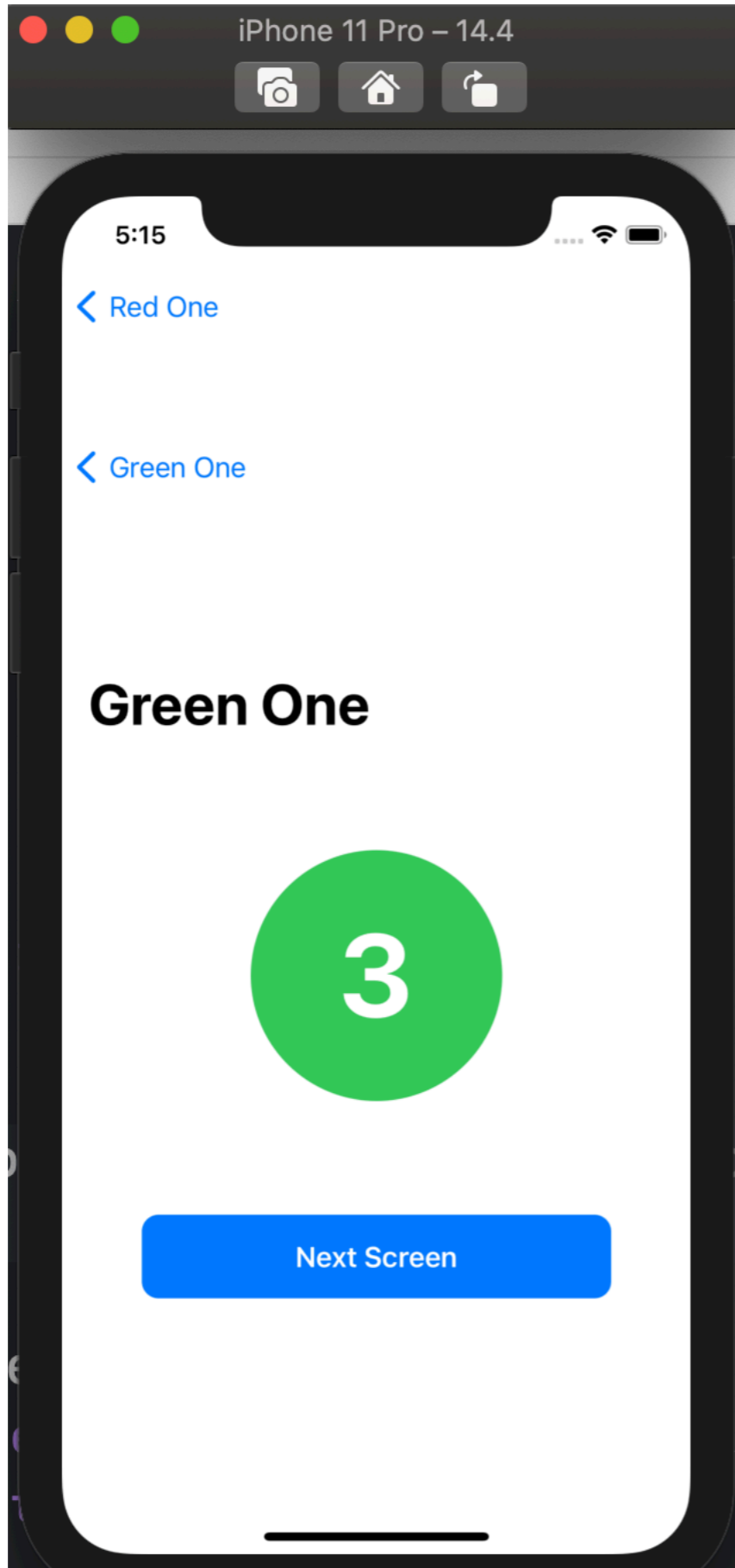
$$\begin{aligned} \text{fac}(n) &= 1, \text{ if } n == 1 \text{ or } n == 0 \\ &= n * \text{fac}(n-1), \text{ otherwise} \end{aligned}$$

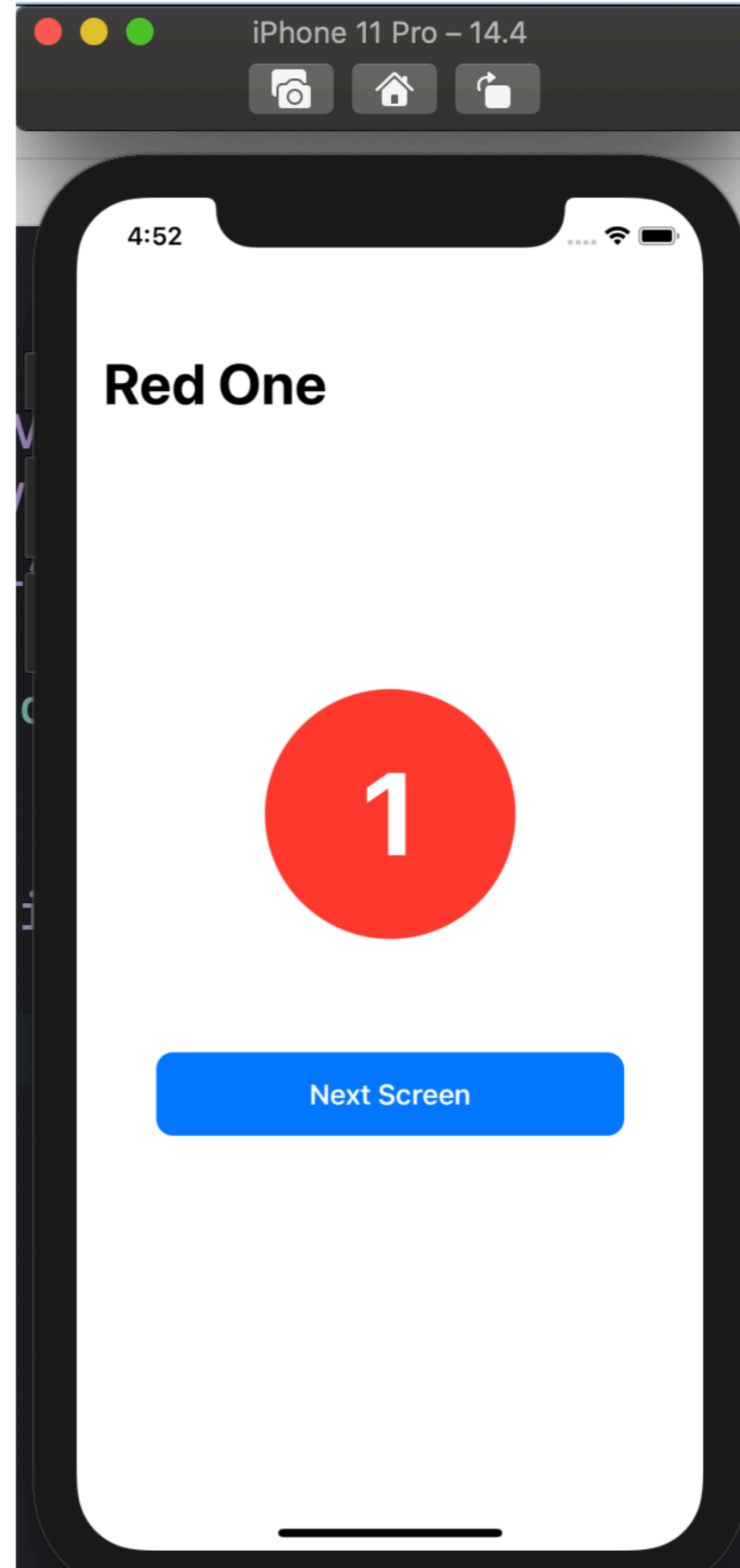
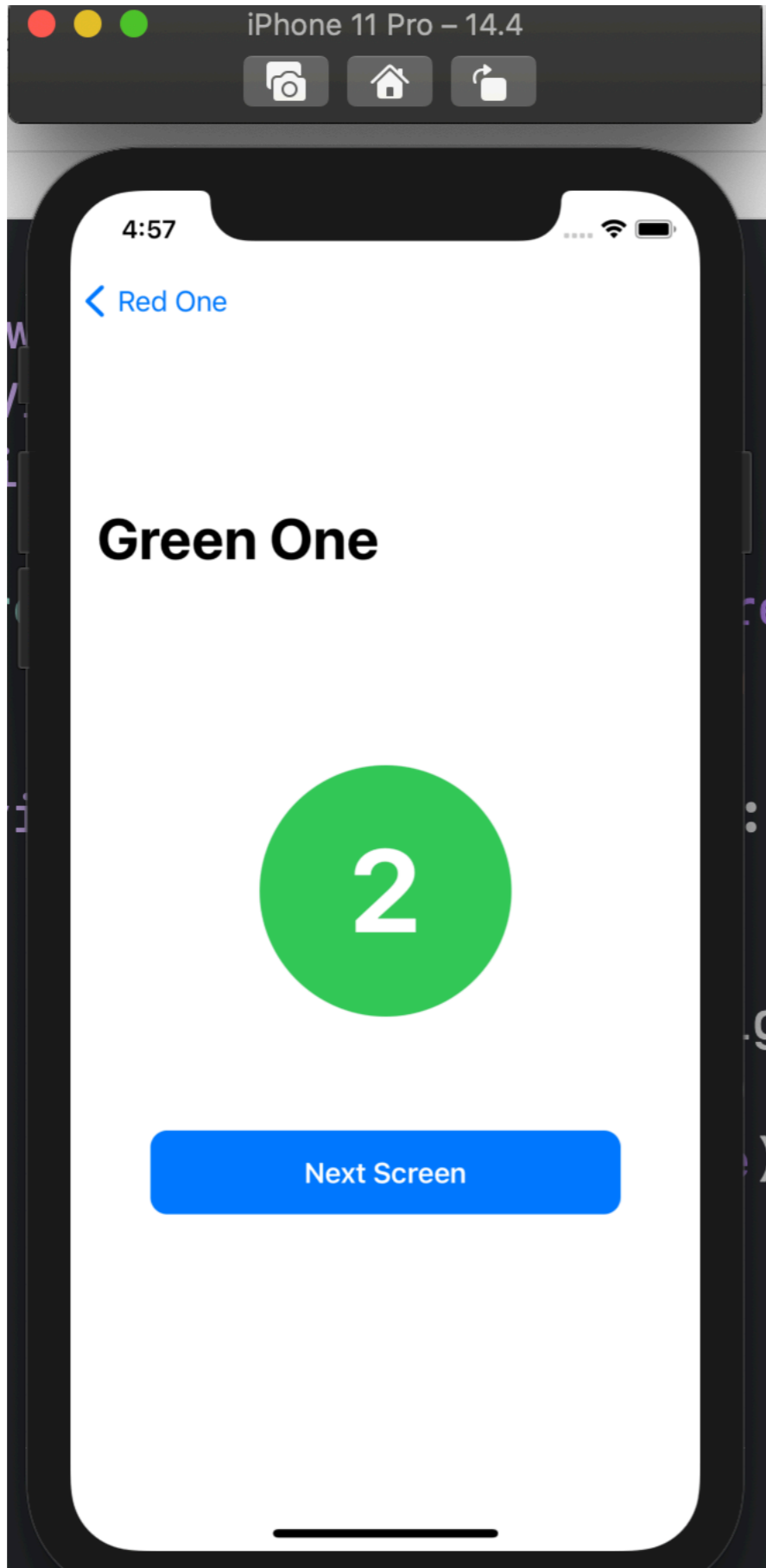












```

10 struct ContentView: View {
11     @State private var totalStr = "3"
12     var body: some View {
13         NavigationView{
14             VStack {
15                 CircleNumberView(color: .red, number: 1)
16                     .navigationTitle("Red One")
17                     .offset(y: -60)
18                 if let total = Int(totalStr){
19                     NavigationLink(destination: NodeView(node: 1, total: total),
20                                 label: {
21                                     Text("Next Screen")
22                                         .bold()
23                                         .frame(width: 280, height: 50)
24                                         .background(Color.blue)
25                                         .foregroundColor(.white)
26                                         .cornerRadius(10)
27                                 })
28                 }
29                 HStack{
30                     Spacer(minLength: 100)
31                     Text("number")
32                     TextField("total:", text: $totalStr)
33                 }
34             }
35         }
36     }

```

```
53 struct NodeView: View{
54     let node: Int
55     let total: Int
56     var body: some View{
57         NavigationView{
58             VStack {
59                 CircleNumberView(color: .green, number: node + 1)
60                     .navigationTitle("Green One")
61                     .offset(y: -60)
62                 if node == total - 2{...} else {...}
81             }
82         }
83     }
84 }
```

```
62     if node == total - 2{
63         NavigationLink(destination: TailView(number: total), label: {
64             Text("Next Screen")
65                 .bold()
66                 .frame(width: 280, height:50)
67                 .background(Color.blue)
68                 .foregroundColor(.white)
69                 .cornerRadius(10)
70         })
71     } else {
72         NavigationLink(destination: NodeView(node: node + 1,
73             total:total), label: {
74             Text("Next Screen")
75                 .bold()
76                 .frame(width: 280, height:50)
77                 .background(Color.blue)
78                 .foregroundColor(.white)
79                 .cornerRadius(10)
80         })
81     }
82 }
```

```
85 struct TailView: View{
86     let number : Int
87     var body: some View{
88         NavigationView{
89             CircleNumberView(color: .blue, number: number)
90                 .navigationTitle("Blue End")
91                 .offset(y: -60)
92         }
93     }
94 }
95 }
```

步驟五、使用遞迴架構 設計五個畫面

```
struct ContentView: View {  
    let total = 5  
    var body: some View {  
        NavigationView{  
            VStack{...}  
        }  
    }  
}
```

