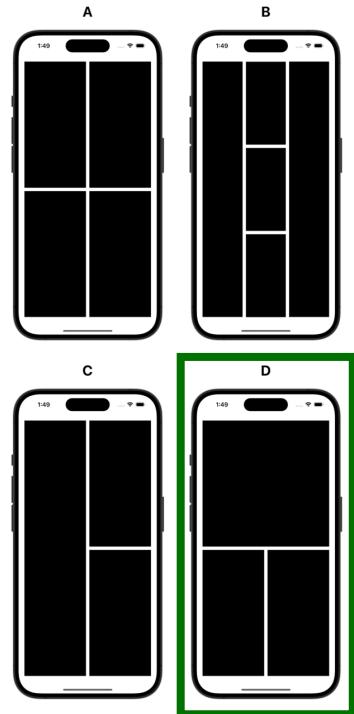


Quiz: User Interface Fundamentals

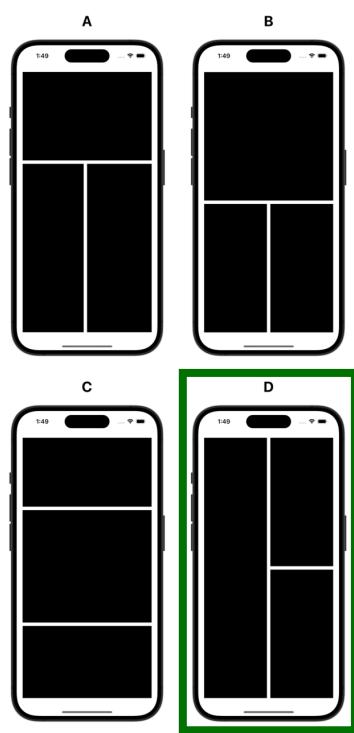
1. The following code will produce which layout shown at right? (circle one)

```
struct ContentView: View {  
    var body: some View {  
        VStack {  
            Rectangle()  
            HStack {  
                Rectangle()  
                Rectangle()  
            }  
        }  
    }  
}
```



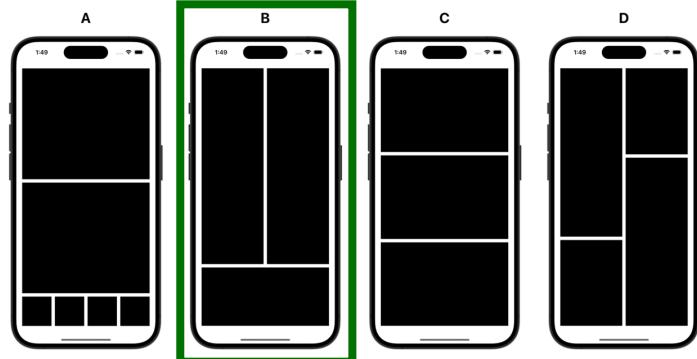
2. The following code will produce which layout shown at right? (circle one)

```
struct ContentView: View {  
    var body: some View {  
        HStack {  
            Rectangle()  
            VStack {  
                Rectangle()  
                Rectangle()  
            }  
        }  
    }  
}
```



3. The following code will produce which layout shown below? (circle one)

```
struct ContentView: View {  
    var body: some View {  
        VStack {  
            HStack {  
                Rectangle()  
                Rectangle()  
            }  
  
            Rectangle()  
                .containerRelativeFrame(.vertical, count: 10, span: 3, spacing: 0)  
        }  
    }  
}
```



4. Define what a *protocol* is in Swift using one sentence. Then, explain what it means for a structure to *conform* to a protocol.

A protocol is a set of requirements (rules) that a type must satisfy.

If a structure conforms to a protocol, it promises to provide the required properties/methods, and the compiler checks that it actually does.

5. What is the difference between HStack, VStack, and ZStack?

HStack lays out views side-by-side horizontally.

VStack lays out views vertically.

ZStack layers views on top of each other (first is at the back, later views appear in front).