

Challenge: Decompose multiple patterns into functions and loops.

In this challenge, there are gems to collect and switches to toggle open. You'll need to identify the patterns for gem collection and switch activation. Then you'll write a [function](#) for each [pattern](#) and figure out how many times you'll need to [call](#) those functions using loops.

```
// Toggle Switches
```

```
func toggle() {  
    moveForward()  
    toggleSwitch()  
    moveForward()  
    toggleSwitch()  
    turnLeft()  
    turnLeft()  
    moveForward()  
    moveForward()  
}
```

```
// Collect Gems
```

```
func gems() {  
    turnRight()  
    moveForward()  
    collectGem()  
    moveForward()  
    collectGem()  
    turnLeft()  
    turnLeft()  
    moveForward()  
    moveForward()  
}
```

```
// Next Path
```

```
func next() {  
    turnLeft()  
    moveForward()  
}  
  
for i in 1 ... 3 {
```

```
    gems()  
    toggle()  
    next()  
}
```