

**Goal:** Choose the best loop to collect all the gems.

This puzzle has six gems and a simple [pattern](#) for your character to follow. The best way to solve this puzzle is to use a [loop](#), but which kind? You could use a [while loop](#) to keep moving while nothing blocks the way. Or, because you know how many gems there are, you could use a [for loop](#) to repeat the pattern a specific number of times.

Sometimes deciding how to solve a coding problem is just a matter of which option feels better to you. When coders are faced with this type of choice, they base their decisions on which option results in a shorter solution or has more possibilities for reuse.

- 1 Identify the pattern to move from gem to gem.
  - 2 Choose a type of loop and use it to solve the puzzle.
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```
func turnAndCollectGem() {  
    moveForward()  
    turnLeft()  
    moveForward()  
    collectGem()  
    turnRight()  
}  
while !isBlocked {  
    for i in 1 ... 8 {  
        turnAndCollectGem()  
    }  
}
```