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## **Question 1**

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## Question 1

1/1 point (graded)

Here is the template for Room that we developed in the video:

```
(define (fn-for-room r0)
  (local [(define (fn-for-room r todo visited)
            (if (member (room-name r) visited)
                (define (fn-for-lor todo visited) (cond [(empty? todo) (...)]
                  [else
(fn-for-room (first todo)
                                (rest todo)
                                visited)]))]
    (fn-for-room r0 empty empty)))
```

What would be the effect of switching the order of (append (room-exits r) todo) to (append todo (room-exits))?

- C The template will no longer be tail recursive
- C The template will no longer avoid cycles
- The template will visit the rooms in a different order
- C The template will no longer visit all the rooms



## Explanation

The template will no visit all of the rooms accessible from the first room, before moving onto those accessible from subsequent rooms.

Answer

• Answers are displayed within the problem

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