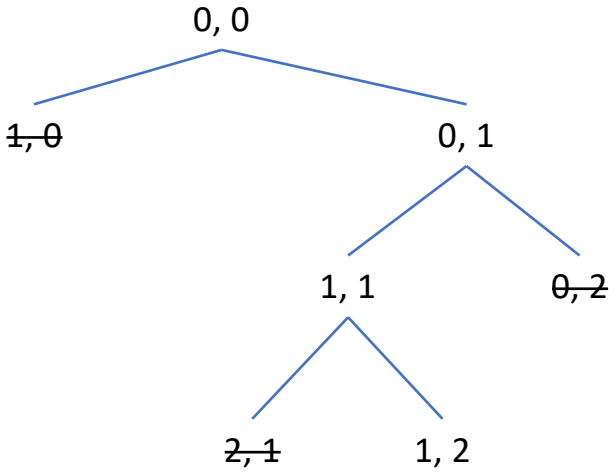
Tree of x,y positions moving through this maze

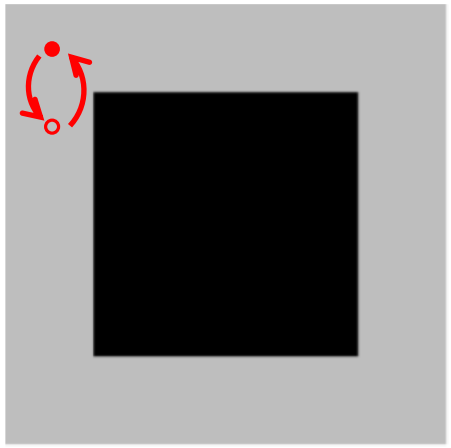


At each step it is only possible to move right (x+1) or down (y+1). But sometimes those may be invalid because they run into a wall or off the edge of the maze.

Do not assume each position can have only one valid next position. In general it is an arbitrary-arity tree.

This maze is solveable, so will eventually reach 4, 4. Yay!

```
(define M4
  (list O O O O O
        O W W W O
        O W O O O
        O W O W W
        W W O O O))
```



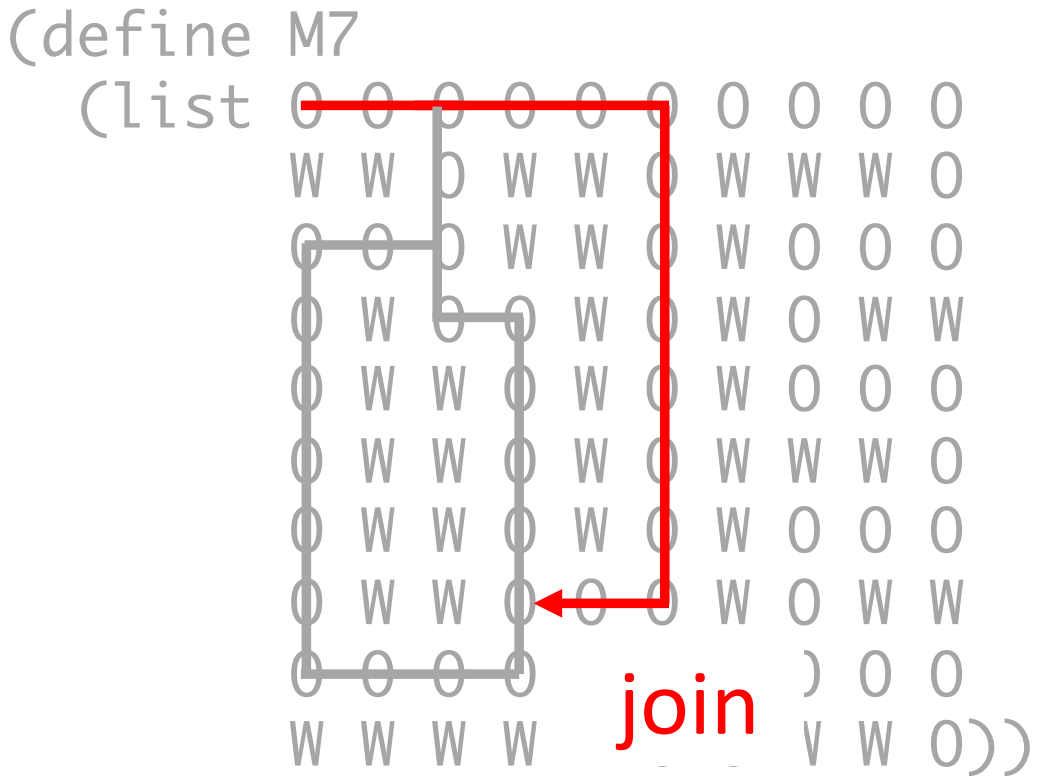
```
(define M7
  (list O O O O O O O O O O
        W W O W W O W W W O
        O O O W W O W O O O
        O W O O W O W O W W
        O W W O W O W O O O
        O W W O W O W W W O
        O W W O W O W O O O
        O W W O O O W O W W
        O O O O W W W O O O
        W W W W W O O W W O))
```

```
(define M7
  (list O O O O O O O O O O
        W W O W W O W W W O
        O O O W W O W O O O
        O W O O W O W O W W
        O W W O W O W O O O
        O W W O W O W W W O
        O W W O W O W O O O
        O W W O O O W O W W
        O O O O W W W O O O
        W W W W W O O W W O))
```

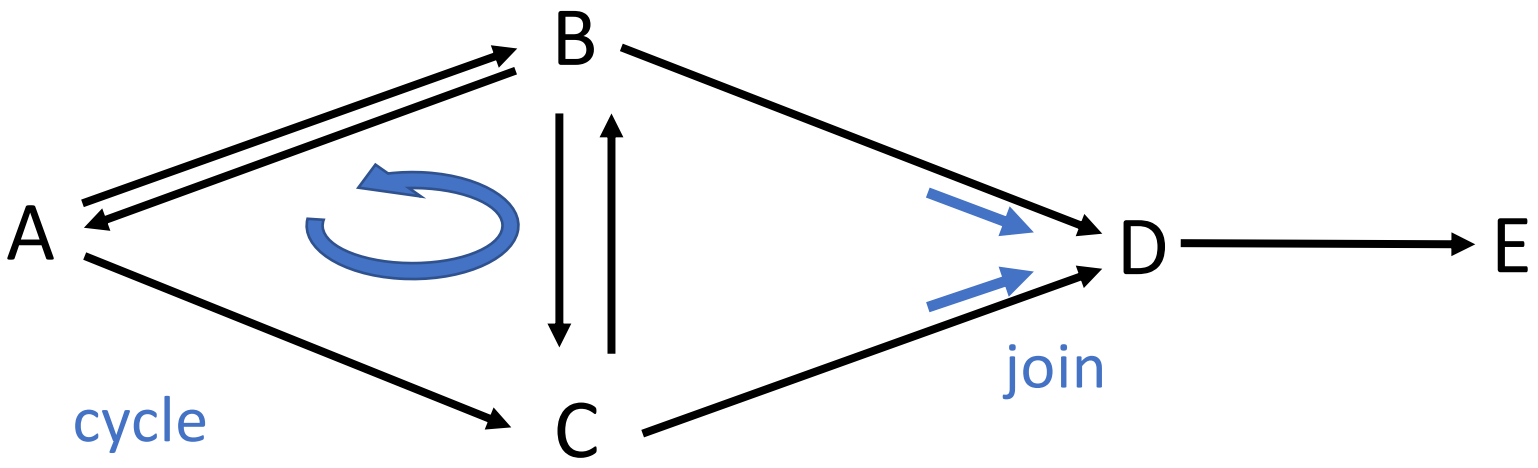
cycle

keep path accumulator

detect fail when detect cycle


(define M7
(list
join

Directed Graphs



5 maze functions in 2 days

result	Non-functional requirement	sr/tr	path?	visited?	tandem WLs
true or false	must terminate	sr	Y	n/a	n/a
true or false	visit each pos only once	tr	N	Y	N
first path	large mazes				
shortest path	large mazes				
shortest path length	large mazes				