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Day 16: Reindeer Maze	Our sponsors help
t's time again for the Reindeer Olympics! This year, the big event is the eindeer Maze, where the Reindeer compete for the lowest score.	make Advent of Code possible:
ou and The Historians arrive to search for the Chief right as the event is bout to start. It wouldn't hurt to watch a little, right?	Zero To Mastery - Ready to upgrade your earning
he Reindeer start on the Start Tile (marked S) facing East and need to each the End Tile (marked E). They can move forward one tile at a time	power? If you like AoC, you'll
increasing their score by 1 point), but never into a wall (#). They can lso rotate clockwise or counterclockwise 90 degrees at a time (increasing	like our courses built by programmers (not
heir score by 1000 points). o figure out the best place to sit, you start by grabbing a map (your	influencers), for programmers. ZTM
uzzle input) from a nearby kiosk. For example:	helps you get a better job, and earn more with
E#	one trick: quality, not
# . # # . # . # . # . #	gimmicks.
.#.##.#.##.# .#.#####.##.#	
##.#.#####.#.# ##.#	
.#.##.##.#.#.# ##.# .###.#.#.#.#	
S## #############################	
here are many paths through this maze, but taking any of the best paths ould incur a score of only 7036. This can be achieved by taking a total of	
6 steps forward and turning 90 degrees a total of 7 times:	
######################################	
 # . # # # # . # . # # # * # . # * # * #	
.#.##^# .#.#####**	
>>>>>>> ##^#.######\# >>^##\#^#	
^#.#.###.#V#^# ^#.#\########## ^#.###########	
^###.#.#.#\#\# S##>>^# ###########################	
ere's a second example:	
######################################	
.#.#.#.#.#.#.# .#.#.#.#.#.#.# .#.#.#.#.#.#.#	
# . # . # # . # . # . #	
.##.#.## .####### .###	
.#.##.################################	
<pre>.#.#.#####.##.## .#.##.# .#.#.######</pre>	
S## ###############################	
n this maze, the best paths cost 11048 points; following one such path ould look like this:	
######################################	
.#.#.#.#.#.#.#^# .#.###^#	
.#.#.#.####.#.#^# >>v#.#.#.#.#.#### ^#v#.#.#.######	
^#v#.#*>>> ^# ^#v######.# ^###.#	
^#v#>>>^## ^#v############### ^#v#>>^##	
^#V#^############### ^#V#^#.#	
^#V#^#################################	
ote that the path shown above includes one 90 degree turn as the very	
irst move, rotating the Reindeer from facing East to facing North. nalyze your map carefully. What is the lowest score a Reindeer could	
ossibly get?	
our puzzle answer was 90460. he first half of this puzzle is complete! It provides one gold star: *	
Part Two	
ow that you know what the best paths look like, you can figure out the	
est spot to sit. very non-wall tile (S, ., or E) is equipped with places to sit along the	
dges of the tile. While determining which of these tiles would be the best pot to sit depends on a whole bunch of factors (how comfortable the seats	
re, how far away the bathrooms are, whether there's a pillar blocking your iew, etc.), the most important factor is whether the tile is on one of the est paths through the maze. If you sit somewhere else, you'd miss all the	
ction! o, you'll need to determine which tiles are part of any best path through	
he maze, including the S and E tiles.	
n the first example, there are 45 tiles (marked 0) that are part of at east one of the various best paths through the maze:	
######################################	
.#.###.#.#O##.#.####.#O# .###.######.#O#	
.#.##O# .#.#######################	
OOOOOOOO#O# ##O#O######O#O# OOO#O#O#O#	
0#0#0###.#0#0# 00000##0#0#	
<pre>O###.#.#.#0#0# O##000# ###########</pre>	
n the second example, there are 64 tiles that are part of at least one of he best paths:	
####################################	
###O# .#.#.#.#.#.#.#O# .#.##O#	
.#.#.#.#.#.#O# OOO#.#.##O#	
O#O#.#.#.#####O# O#O#.#.#00000# O#O#####.#O###O#	
O#O#OOOOO#OOO# O#O###O#######O###	
O#O#000#000#.# O#O#O##################	
O#O#O#################################	
######################################	
est paths through the maze?	
nswer: [Submit] lthough it hasn't changed, you can still get your puzzle input.	
ou can also [Share] this puzzle.	