```
\vee (2024)
--- Day 10: Hoof It ---
You all arrive at a Lava Production Facility on a floating island in the
sky. As the others begin to search the massive industrial complex, you feel
a small nose boop your leg and look down to discover a reindeer wearing a
hard hat.
The reindeer is holding a book titled "Lava Island Hiking Guide". However,
when you open the book, you discover that most of it seems to have been
scorched by lava! As you're about to ask how you can help, the reindeer
brings you a blank topographic map of the surrounding area (your puzzle
input) and looks up at you excitedly.
Perhaps you can help fill in the missing hiking trails?
The topographic map indicates the height at each position using a scale
from 0 (lowest) to 9 (highest). For example:
0123
1234
8765
9876
Based on un-scorched scraps of the book, you determine that a good hiking
trail is as long as possible and has an even, gradual, uphill slope. For
all practical purposes, this means that a hiking trail is any path that
starts at height 0, ends at height 9, and always increases by a height of
exactly 1 at each step. Hiking trails never include diagonal steps - only
up, down, left, or right (from the perspective of the map).
You look up from the map and notice that the reindeer has helpfully begun
to construct a small pile of pencils, markers, rulers, compasses, stickers,
and other equipment you might need to update the map with hiking trails.
A trailhead is any position that starts one or more hiking trails - here,
these positions will always have height 0. Assembling more fragments of
pages, you establish that a trailhead's score is the number of 9-height
positions reachable from that trailhead via a hiking trail. In the above
example, the single trailhead in the top left corner has a score of \overline{1}
because it can reach a single 9 (the one in the bottom left).
This trailhead has a score of 2:
...0...
|...1...
...2...
6543456
7....7
8...8
9....9
(The positions marked . are impassable tiles to simplify these examples;
they do not appear on your actual topographic map.)
This trailhead has a score of 4 because every 9 is reachable via a hiking
trail except the one immediately to the left of the trailhead:
..90..9
...1.98
...2...7
6543456
765.987
876....
987....
This topographic map contains two trailheads; the trailhead at the top has
a score of 1, while the trailhead at the bottom has a score of 2:
10..9..
2...8..
3...7..
4567654
...8..3
...9..2
....01
Here's a larger example:
89010123
78121874
87430965
96549874
45678903
32019012
01329801
10456732
This larger example has 9 trailheads. Considering the trailheads in reading
order, they have scores of 5, 6, 5, 3, 1, 3, 5, 3, and 5. Adding these
scores together, the sum of the scores of all trailheads is 36.
The reindeer gleefully carries over a protractor and adds it to the pile.
What is the sum of the scores of all trailheads on your topographic map?
To begin, get your puzzle input.
```

Answer:

You can also [Share] this puzzle.

Advent of Code [About] [Events] [Shop] [Settings] [Log Out] Michał Kłobukowski 16*

Infi - Er is

vanaf de

slecht weer op

komst en het is

een lange tocht

jij de kerstman

veilig door het

luchtruim te

navigeren?

Noordpool... Help