

--- Day 3: Toboggan Trajectory ---

Due to the local geology, trees in this area only grow on exact integer coordinates in a grid. You make a map (your puzzle input) of the open squares (.) and trees (#) you can see. For example:

[illegible]

The toboggan can only follow a few specific slopes (you opted for a cheaper model that prefers rational numbers); start by counting all the trees you would encounter for the slope right 3, down 1:

The locations you'd check in the above example are marked here with `0` when there was an open square and `X` where there was a tree:

Starting at the top-left corner of your map and following a slope of right 3 and down 1, how many trees would you encounter?

Your puzzle answer was 228.

The first half of this puzzle is complete! It provides one gold star: *

--- Part Two ---

In the above example, these slopes would find **2**, **7**, **3**, **4**, and **2** tree(s) respectively; multiplied together, these produce the answer **336**.

What do you get if you multiply together the number of trees encountered on each of the listed slopes?

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