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In[1]:= rawTrees = ReadString["F:\\prog\\aoc2020\\03input.txt"];
trees = Map[ToExpression] /@ (StringSplit[#, ""] & /@
    StringSplit@StringReplace[rawTrees, {"." → "0", "#" → "1"}]);
{rows, cols} = Dimensions[trees];

In[4]:= treeCounter[x_, y_] := (
    nTrees = 0;
    Do[
        n = y * i + 1;
        m = Mod[x * i, cols] + 1;
        nTrees += trees[[n, m]];
        , {i, 1, (rows - 1) / y}];
    Return[nTrees]
)

In[5]:= Times @@ treeCounter @@@ {{1, 1}, {3, 1}, {5, 1}, {7, 1}, {1, 2}}
Out[5]= 1 478 615 040

```