

high-speed train, the Elves at you again. They think their sat monster! Unfortunately, the con

problems, and many of the messages sent back from the satellite have been corrupted.

They sent you a list of the rules valid messages should obey and a list of received messages they've collected so far (your puzzle input).

The rules for valid messages (the top part of your puzzle input) are numbered and build upon each other. For example:

that match m
example, the
checked must
followed by

Fortunately,
matches will

5: "b"
ababbb
bababa
abbbab
aaabbb
aaaabbb

match all of rule 0; there can't be extra unmatched characters in the message. (For example, aaaabbb might appear to match rule 0 above, but it has an extra unmatched b on the end.)

8: 42 | 42 8
11: 42 31 |

This small change in the list of values means we need to determine the new versions.

Fortunately, we can use the help to start with the current values and then add the new versions.

(Remember, you can use the solution that is available to you to significantly simplify this process.)

16: 15 1 | 14 14
31: 14 17 | 1 13
6: 14 14 | 1 14

13: 14 3 | 1 12
15: 1 | 14

bbbbbbbaaaabbbbaaabbabaaa
bbbababbbbaaaaaaaaabbababaaababaabab
ababaaaaaabbaaab

ababaaaaabbaba
baabbaaaabbaaaababbaababb
abbbbabbbaaaababbbbbbbaaaababb
aaaaabbaabaaaaababaa
aaaabbaaaabbaaa
aaaabbaabbaaaaaabbabbbaaabbaabaaa
babaaabbbaaabababbaabababaaab
aabbbbbaabbaaaaaabbbbbaababaaaaabbaabba

Without updating rules 8 and 11, these rules
bbabbbbaabaabba, ababaaaaaabbaab, and ababaaa

However, after updating rules 8 and 11, a tot

- bbabbbbaabaabba
- babbbaabbbbbbabbbbaabaaabaaa
- aaabbbbbbaaaaabaababaabababbabaaabbabababaa

- **babababbbbaaaaaaaabbababaaababaabab**
- **ababaaaaaabaaab**
- **ababaaaaabbbbab**

- baabbaaaabbaaaababbaaba
- abbbbabbbaaaababbbbbba
- aaaaabbaabbaaaaababaa

After updating rules 8 and 11, how many messages completely

Your puzzle answer was 277.

Both parts of this puzzle are com

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