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--- Day 7: Handy Haversacks ---

You land at the regional airport in time for your next flight. In fact, it looks like you'll even have time to grab some food: all flights are currently delayed due to issues in luggage processing.

Due to recent aviation regulations, many rules (your puzzle input) are being enforced about bags and their contents; bags must be color-coded and must contain specific quantities of other color-coded bags. Apparently, nobody responsible for these regulations considered how long they would take to enforce!
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For example, consider the following rules:

bright white bags contain 1 shiny gold bag.

faded blue bags contain no other bags.

dotted black bags contain no other bags.

faded blue and 6 dotted black), and so on.

shiny gold bag?)

some other bags.

at least one shiny gold bag is 4.

- faded blue bags contain 0 other bags.

nesting becomes topologically impractical!

shiny gold bags contain 2 dark red bags.

dark red bags contain 2 dark orange bags.

dark orange bags contain 2 dark yellow bags.

dark yellow bags contain 2 dark green bags.

dark green bags contain 2 dark blue bags.

dark blue bags contain 2 dark violet bags.

dark violet bags contain no other bags.

Answer:

You can also [Share] this puzzle.

- dotted black bags contain 0 other bags.

Your puzzle answer was 378.

dotted black bags.

dotted black bags.

1 + 1*7 + 2 + 2*11 = 32 bags!

Here's another example:

--- Part Two ---

light red bags contain 1 bright white bag, 2 muted yellow bags.

muted yellow bags contain 2 shiny gold bags, 9 faded blue bags.

shiny gold bags contain 1 dark olive bag, 2 vibrant plum bags.

dark olive bags contain 3 faded blue bags, 4 dotted black bags.

vibrant plum bags contain 5 faded blue bags, 6 dotted black bags.

These rules specify the required contents for 9 bag types. In this example,

every faded blue bag is empty, every vibrant plum bag contains 11 bags (5

You have a shiny gold bag. If you wanted to carry it in at least one other

bag, how many different bag colors would be valid for the outermost bag?

(In other words: how many colors can, eventually, contain at least one

In the above rules, the following options would be available to you:

either of which could then hold your shiny gold bag.

either of which could then hold your shiny gold bag.

(The list of rules is quite long; make sure you get all of it.)

- A bright white bag, which can hold your shiny gold bag directly.

- A muted yellow bag, which can hold your shiny gold bag directly, plus

- A dark orange bag, which can hold bright white and muted yellow bags,

- A light red bag, which can hold bright white and muted yellow bags,

So, in this example, the number of bag colors that can eventually contain

How many bag colors can eventually contain at least one shiny gold bag?

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

It's getting pretty expensive to fly these days - not because of ticket

Consider again your shiny gold bag and the rules from the above example:

- vibrant plum bags contain 11 other bags: 5 faded blue bags and 6

So, a single shiny gold bag must contain 1 dark olive bag (and the 7 bags

Of course, the actual rules have a small chance of going several levels

deeper than this example; be sure to count all of the bags, even if the

In this example, a single shiny gold bag must contain 126 other bags.

Although it hasn't changed, you can still get your puzzle input.

How many individual bags are required inside your single shiny gold bag?

within it) plus 2 vibrant plum bags (and the 11 bags within each of those):

- dark olive bags contain 7 other bags: 3 faded blue bags and 4

prices, but because of the ridiculous number of bags you need to buy!

dark orange bags contain 3 bright white bags, 4 muted yellow bags.

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