

--- Day 5: Cafeteria ---

As the forklifts break through the wall, the Elves are delighted to discover that there was a cafeteria on the other side after all.

You can hear a commotion coming from the kitchen. "At this rate, we won't have any time left to put the wreaths up in the dining hall!" Resolute in your quest, you investigate.

"If only we hadn't switched to the new inventory management system right before Christmas!" another Elf exclaims. You ask what's going on.

The Elves in the kitchen explain the situation: because of their complicated new inventory management system, they can't figure out which of their ingredients are **fresh** and which are **spoiled**. When you ask how it works, they give you a copy of their database (your puzzle input).

The database operates on **ingredient IDs**. It consists of a list of **fresh ingredient ID ranges**, a blank line, and a list of **available ingredient IDs**. For example:

```
3-5  
10-14  
16-20  
12-18  
  
1  
5  
8  
11  
17  
32
```

The fresh ID ranges are **inclusive**: the range **3-5** means that ingredient IDs **3**, **4**, and **5** are all **fresh**. The ranges can also overlap; an ingredient ID is **fresh** if it is in any range.

The Elves are trying to determine which of the **available ingredient IDs** are **fresh**. In this example, this is done as follows:

- Ingredient ID **1** is **spoiled** because it does not fall into any range.
- Ingredient ID **5** is **fresh** because it falls into range **3-5**.
- Ingredient ID **8** is **spoiled**.
- Ingredient ID **11** is **fresh** because it falls into range **10-14**.
- Ingredient ID **17** is **fresh** because it falls into range **16-20** as well as range **12-18**.
- Ingredient ID **32** is **spoiled**.

So, in this example, **3** of the available ingredient IDs are **fresh**.

Process the database file from the new inventory management system. How many of the available ingredient IDs are **fresh**?

Your puzzle answer was **737**.

--- Part Two ---

The Elves start bringing their spoiled inventory to the trash chute at the back of the kitchen.

So that they can stop bugging you when they get new inventory, the Elves would like to know **all** of the IDs that the **fresh ingredient ID ranges** consider to be **fresh**. An ingredient ID is still considered **fresh** if it is in any range.

Now, the second section of the database (the available ingredient IDs) is irrelevant. Here are the **fresh ingredient ID ranges** from the above example:

```
3-5  
10-14  
16-20  
12-18
```

The ingredient IDs that these ranges consider to be **fresh** are **3**, **4**, **5**, **10**, **11**, **12**, **13**, **14**, **15**, **16**, **17**, **18**, **19**, and **20**. So, in this example, the **fresh ingredient ID ranges** consider a total of **14** ingredient IDs to be **fresh**.

Process the database file again. How many ingredient IDs are considered to be **fresh** according to the **fresh ingredient ID ranges**?

Your puzzle answer was **357485433193284**.

Both parts of this puzzle are complete! They provide two gold stars: **

At this point, you should [return to your Advent calendar](#) and try another puzzle.

If you still want to see it, you can [get your puzzle input](#).

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