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--- Day 4: Security Through Obscurity ---

Finally, you come across an information kiosk with a list of
rooms. Of course, the list is encrypted and full of decoy
data, but the instructions to decode the list are barely
hidden nearby. Better remove the decoy data first.

Each room consists of an encrypted name (lowercase letters
separated by dashes) followed by a dash, a sector ID, and a
checksum in square brackets.

A room is real (not a decoy) if the checksum is the five most
common letters in the encrypted name, in order, with ties
broken by alphabetization. For example:

  - aaaaa-bbb-z-y-x-123[abxyz] is a real room because the most common
    letters are a (5), b (3), and then a tie between x, y, and z, which
    are listed alphabetically.
  - a-b-c-d-e-f-g-h-987[abcde] is a real room because although the letters
    are all tied (1 of each), the first five are listed alphabetically.
  - not-a-real-room-404[oarel] is a real room.
  - totally-real-room-200[decoy] is not.

Of the real rooms from the list above, the sum of their sector IDs is 1514.

What is the sum of the sector IDs of the real rooms?

Your puzzle answer was 409147.

--- Part Two ---

With all the decoy data out of the way, it's time to decrypt this list and
get moving.

The room names are encrypted by a state-of-the-art shift cipher, which is
nearly unbreakable without the right software. However, the information
kiosk designers at Easter Bunny HQ were not expecting to deal with a master
cryptographer like yourself.

To decrypt a room name, rotate each letter forward through the alphabet a
number of times equal to the room's sector ID. A becomes B, B becomes C, Z
becomes A, and so on. Dashes become spaces.

For example, the real name for qzmt-zixmtkozy-ivhz-343 is
very encrypted name.

What is the sector ID of the room where North Pole objects are stored?

Your puzzle answer was 991.

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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