2118. Build the Equation

Description

```
Table: Terms

+-----+
| Column Name | Type |
+-----+
| power | int |
| factor | int |
+-----+

power is the column with unique values for this table.

Each row of this table contains information about one term of the equation.

power is an integer in the range [0, 100].

factor is an integer in the range [-100, 100] and cannot be zero.
```

You have a very powerful program that can solve any equation of one variable in the world. The equation passed to the program must be formatted as follows:

- The left-hand side (LHS) should contain all the terms.
- The right-hand side (RHS) should be zero.
- Each term of the LHS should follow the format "<sign><fact>X^<pow>" where:

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    <sign> is either "+" or "-".
    <fact> is the absolute value of the factor.
    <pow> is the value of the power.
    If the power is 1, do not add "^<pow>".
    For example, if power = 1 and factor = 3, the term will be "+3X".
    If the power is 0, add neither "X" nor "^<pow>".
    For example, if power = 0 and factor = -3, the term will be "-3".
```

• The powers in the LHS should be sorted in descending order.

Write a solution to build the equation.

The result format is in the following example.

Example 1:

Example 2:

Follow up: What will be changed in your solution if the power is not a primary key but each power should be unique in the answer?