## Cryptarithm Problem

A cryptarithm is a mathematical puzzle where the goal is to find the correspondence between letters and digits such that the given arithmetic equation consisting of letters holds true.

Given a cryptarithm as an array of strings crypt, count the number of its valid solutions.

Rules for a Valid Solution:

- Each letter must represent a different digit.
- The leading digit of any multi-digit number must not be zero.

The crypt has the following structure:

[word1, word2, word3]

which stands for:

word1 + word2 = word3

## Examples

Example 1:

crypt = ["SEND", "MORE", "MONEY"]

Output: solution(crypt) = 1

Explanation:

Only one valid mapping exists:

$$O = 0$$
,  $M = 1$ ,  $Y = 2$ ,  $E = 5$ ,  $N = 6$ ,  $D = 7$ ,  $R = 8$ ,  $S = 9$ 

## Example 2:

crypt = ["GREEN", "BLUE", "BLACK"]

Output: solution(crypt) = 12

Explanation: There are 12 valid solutions, such as:

54889 + 6138 = 61027

18559 + 2075 = 20634

72449 + 8064 = 80513

48229 + 5372 = 53601

47119 + 5261 = 52380

36887 + 4028 = 40915

83447 + 9204 = 92651

74665 + 8236 = 82901

65884 + 7308 = 73192

57883 + 6408 = 64291

57881 + 6428 = 64309

83441 + 9264 = 92705

## Example 3:

crypt = ["ONE", "TWO", "THREE"]

Output: solution(crypt) = 0

Explanation: No valid solutions.

Input / Output
[execution time limit] 3 seconds (Java)
[memory limit] 1 GB
Input:
- array.string crypt
An array of three non-empty strings containing only uppercase English letters.
Constraints:
1 <= crypt[i].length <= 35
Output:
- integer
The number of valid solutions.