Problem 1079: Letter Tile Possibilities

Problem Information

Difficulty: Medium
Acceptance Rate: 83.54%
Paid Only: No
Tags: Hash Table, String, Backtracking, Counting

Problem Description

You have `n` `tiles`, where each tile has one letter `tiles[i]` printed on it.

Return _the number of possible non-empty sequences of letters_ you can make using the letters printed on those `tiles`.

Example 1:

Input: tiles = "AAB" **Output:** 8 **Explanation:** The possible sequences are "A", "B", "AA", "AB", "BA", "AAB", "ABA", "BAA".

Example 2:

Input: tiles = "AAABBC" **Output:** 188

Example 3:

Input: tiles = "V" **Output:** 1

Constraints:

* `1 <= tiles.length <= 7` * `tiles` consists of uppercase English letters.

Code Snippets

C++:

```
class Solution {
public:
int numTilePossibilities(string tiles) {

}
};
```

Java:

```
class Solution {
public int numTilePossibilities(String tiles) {

}
}
```

Python3:

```
class Solution:
def numTilePossibilities(self, tiles: str) -> int:
```