Problem 811: Subdomain Visit Count

Problem Information

Difficulty: Medium
Acceptance Rate: 77.02%
Paid Only: No
Tags: Array, Hash Table, String, Counting

Problem Description

A website domain `"discuss.leetcode.com"` consists of various subdomains. At the top level, we have `"com"`, at the next level, we have `"leetcode.com"` and at the lowest level, `"discuss.leetcode.com"`. When we visit a domain like `"discuss.leetcode.com"`, we will also visit the parent domains `"leetcode.com"` and `"com"` implicitly.

A **count-paired domain** is a domain that has one of the two formats `"rep d1.d2.d3"` or `"rep d1.d2"` where `rep` is the number of visits to the domain and `d1.d2.d3` is the domain itself.

* For example, `"9001 discuss.leetcode.com"` is a **count-paired domain** that indicates that `discuss.leetcode.com` was visited `9001` times.

Given an array of **count-paired domains** `cpdomains`, return _an array of the**count-paired domains** of each subdomain in the input_. You may return the answer in **any order**.

Example 1:

Input: cpdomains = ["9001 discuss.leetcode.com"] **Output:** ["9001 leetcode.com","9001 discuss.leetcode.com","9001 com"] **Explanation:** We only have one website domain: "discuss.leetcode.com". As discussed above, the subdomain "leetcode.com" and "com" will also be visited. So they will all be visited 9001 times.

Example 2:

Input: cpdomains = ["900 google.mail.com", "50 yahoo.com", "1 intel.mail.com", "5 wiki.org"] **Output:** ["901 mail.com","50 yahoo.com","900 google.mail.com","5 wiki.org","5 org","1 intel.mail.com","951 com"] **Explanation:** We will visit "google.mail.com" 900 times, "yahoo.com" 50 times, "intel.mail.com" once and "wiki.org" 5 times. For the subdomains, we will visit "mail.com" 900 + 1 = 901 times, "com" 900 + 50 + 1 = 951 times, and "org" 5 times.

Constraints:

* `1 <= cpdomain.length <= 100` * `1 <= cpdomain[i].length <= 100` * `cpdomain[i]` follows either the `"repi d1i.d2i.d3i"` format or the `"repi d1i.d2i"` format. * `repi` is an integer in the range `[1, 104]`. * `d1i`, `d2i`, and `d3i` consist of lowercase English letters.

Code Snippets

C++:

```
class Solution {
public:
vector<string> subdomainVisits(vector<string>& cpdomains) {

}
};
```

Java:

```
class Solution {
public List<String> subdomainVisits(String[] cpdomains) {

}
}
```

Python3:

```
class Solution:
def subdomainVisits(self, cpdomains: List[str]) -> List[str]:
```