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2514. Count Anagrams

My Submissions (/contest/biweekly-contest-94/problems/count-anagrams/submissions/) Back to Contest (/contest/biweekly-contest-94/) You are given a string s containing one or more words. Every consecutive pair of words is separated by a single space ' '. User Accepted: 1239 A string t is an anagram of string s if the i^{th} word of t is a permutation of the i^{th} word of s. User Tried: 2641 • For example, "acb dfe" is an anagram of "abc def", but "def cab" and "adc bef" are not. Total Accepted: 1292 Return the number of distinct anagrams of s. Since the answer may be very large, return it modulo $10^9 + 7$. **Total Submissions:** 6020 Difficulty: (Hard) Example 1:

```
Input: s = "too hot"
Output: 18
Explanation: Some of the anagrams of the given string are "too hot", "oot hot", "oto toh", "too toh", and "too oht".
```

Example 2:

```
Input: s = "aa"
Output: 1
Explanation: There is only one anagram possible for the given string.
```

Constraints:

- 1 <= s.length <= 10^5
- s consists of lowercase English letters and spaces ' '.
- There is single space between consecutive words.

Discuss (https://leetcode.com/problems/count-anagrams/discuss)

```
d c
JavaScript
    const ord = (c) => c.charCodeAt();
 1
 2
 3
    const ll = BigInt, mod = ll(1e9 + 7), N = 1e5 + 5;
 4
 5
    let fact, ifact, inv;
 6
    const comb_init = () => {
        fact = Array(N), ifact = Array(N), inv = Array(N);
 7
 8
        fact[0] = ifact[0] = inv[1] = 1n;
        for (let i = 2; i < N; i++) inv[i] = (mod - mod / ll(i)) * inv[mod % ll(i)] % mod;
 9
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        for (let i = 1; i < N; i++) {
             fact[i] = fact[i - 1] * ll(i) % mod;
11
             ifact[i] = ifact[i - 1] * inv[i] % mod;
12
13
14
    };
15
16
    const comb = (n, k) \Rightarrow \{
        if (n < k \mid l \mid k < 0) return 0;
17
18
        return fact[n] * ifact[k] % mod * ifact[n - k] % mod;
19
    };
20
21 •
    const countAnagrams = (ss) => {
        let a = ss.split(" "), res = 1n;
22
23
        comb_init();
24
        for (const s of a) {
             let f = Array(26).fill(0), len = s.length;
25
26
             for (const c of s) f[ord(c) - 97]++;
             res = res * fact[len] % mod;
27
28
             for (const occ of f) res = res * ifact[occ] % mod;
29
30
        return res;
```

Submission Result: Accepted (/submissions/detail/865216522/)

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