Problem Link:

<https://codeforces.com/problemset/problem/476/B>

Solution:

* **#include** <bits/stdc++.h>
* **using** **namespace** std;
* **int** factorial(**int** n) {
* **if**(n == 0 || n == 1)
* **return** 1;
* **return** n \* factorial(n - 1);
* }
* **int** comb(**int** n, **int** k) {
* **if**(k < 0 || k > n)
* **return** 0;
* **return** factorial(n) / (factorial(k) \* factorial(n - k));
* }
* **int** main() {
* string s1, s2;
* cin >> s1 >> s2;
* **int** target = 0, current = 0, q = 0;
* **for**(**char** c : s1)
* target += (c == **'+'**) ? 1 : -1;
* **for**(**char** c : s2)
* {
* **if**(c == **'+'**)
* current += 1;
* **else** **if**(c == **'-'**)
* current -= 1;
* **else**
* q++;
* }
* **int** diff = target - current;
* **if**((q + diff) % 2 != 0 || abs(diff) > q)
* {
* cout << fixed << setprecision(12) << 0.0 << **"\n"**;
* **return** 0;
* }
* **int** k = (q + diff) / 2;
* **double** total = pow(2, q);
* **double** valid = comb(q, k);
* cout << fixed << setprecision(12) << valid / total << **"\n"**;
* **return** 0;
* }