C - Takahashi Gets Lost Editorial by en_translator

Once Takahashi's current square is fixed, the square on which he crash-landed for that case is uniquely determined, so we count the number of possible crash-land squares instead of the current ones.

For that purpose, one has to check for each square whether Takahashi may have crash-landed on that squares; in other words, whether he can follow the moves according to string T without entering sea if he crash-lands onto that square. This is the essential part of this problem; all that left is just to count conforming squares.

For HW candidates squares, a simulation according to the length-N string T is required, so the time complexity is O(HWN).

The following is sample code for this problem in C++ language.

```
Copy
    #include <iostream>
    using namespace std;
   int h, w, n;
 5. string t, s[505];
   int main(void)
      cin >> h >> w >> n;
10. cin >> t;
      for(int i = 1; i \leftarrow h; i++) cin >> s[i];
      int ans = 0;
      for(int i = 1; i <= h; i++){
    for(int j = 0; j < w; j++){
15.
         if(s[i][j] == '#') continue;
         int I = i, J = j; bool ok = true;
         for(auto c : t){
           if(c == 'L') J--;
        if(c == 'R') J++;
20.
           if(c == 'U') I--;
           if(c == 'D') I++;
```

```
if(s[][J] == '#'){
      ok = false;

25.      break;
    }
    if(ok) ans++;
}

30. }
    cout << ans << endl;
    return 0;
}</pre>
```