6711 String

Given a string S and two integers L and M, we consider a substring of S as "recoverable" if and only if

(i) It is of length $M * L$;

(ii) It can be constructed by concatenating M "diversified" substrings of S, where each of these substrings has length L; two strings are considered as "diversified" if they don't have the same character for every position.

Two substrings of S are considered as "different" if they are cut from different part of S. For example, string "aa" has 3 different substrings "aa", "a" and "a".

Your task is to calculate the number of different "recoverable" substrings of S.

Input

The input contains multiple test cases, proceeding to the End of File.

The first line of each test case has two space-separated integers M and L.

The second ine of each test case has a string S, which consists of only lowercase letters.

The length of S is not larger than 10^5, and $1 \leq M * L \leq the\ length\ of\ S$.

Output

For each test case, output the answer in a single line.

Sample Input

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3 3
abcabcbcaabc
```

Sample Output

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2
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