

Pair Count

time limit per test: 1 second (1 second for Python)
memory limit per test: 976.6 megabytes
input: standard input
output: standard output
points: 100 · problem code: paircount

We define the value of a string T of length m as the number of pairs (i, j) such that $i < j$, T_i is `m`, and T_j is `u`.
Given a string S of length N and an integer C , find the maximum possible value of X such that there exists a contiguous substring of S with length X and value at most C .

Input

The first line contains two integers N and C .
The second line contains the string S of length N .

Output

Print a single integer representing the maximum possible length X .

Constraints

- $1 \leq N \leq 10^6$
- $1 \leq C \leq 10^{18}$
- S consists only of lowercase English letters.

Example 1

Input

```
10 3
mumumumu
```

Output

```
6
```

Explanation

The longest substring of S that has the value ≤ 3 is *umumum*.

Example 2

Input

```
8 1
monashuni
```

Output

```
8
```