C - Truck Driver

Editorial (/contests/abc430/tasks/abc430_c/editorial)

Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 300 points

Problem Statement

> In AtCoder Country, there is a rule that "a truck driver must take a break of at least B minutes when driving for A minutes or more."

You are given a string S of length N consisting of a and b, and positive integers A and B. Find the number of integer pairs (l, r) that satisfy all of the following conditions.

- $1 \leq l \leq r \leq N$
- The number of a in the substring from the l-th character through the r-th character of S is greater than or equal to A.
- The number of b in the substring from the l-th character through the r-th character of S is less than B.

Constraints

- $1 \leq N \leq 3 \times 10^5$
- $1 \leq A, B \leq N$
- S is a string of length N consisting of a and b.
- All input numbers are integers.

Input

The input is given from Standard Input in the following format:

$$N \quad A \quad B$$
$$S$$

Output

Print the answer.

Sample Input 1 Copy

```
11 4 2
abbaaabaaba
```

Sample Output 1 Copy

```
3
```

The pairs (l, r) that satisfy the conditions are $(4, 8)$, $(4, 9)$, $(5, 9)$, which is three pairs.

Sample Input 2 Copy

```
13 1 2
bbbbbbbbbbbbb
```

Sample Output 2 Copy

```
0
```

There are no pairs (l, r) that satisfy the conditions.

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