

Contest Duration: 2025-04-12(Sat) 22:00 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20250412T2100&p1=248>) - 2025-04-12(Sat) 23:40 (<http://www.timeanddate.com/worldclock/fixedtime.html?iso=20250412T2240&p1=248>) (local time) (100 minutes)

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D - Logical Filling

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Time Limit: 2 sec / Memory Limit: 1024 MiB

Score : 400 points

Problem Statement

You are given a string S of length N consisting of the characters `.`, `o`, and `?`. Among the strings that can be obtained by replacing every `?` in S independently with either `.` or `o`, let X be the set of strings that satisfy all of the following conditions:

- The number of `os` is exactly K .
- No two `os` are adjacent.

It is guaranteed that X is non-empty.

Print a string T of length N that satisfies the following (let T_i denote the i -th character of T):

- If the i -th character of every string in X is `.`, then $T_i = ..$
- If the i -th character of every string in X is `o`, then $T_i = o.$
- If X contains both a string whose i -th character is `.` and a string whose i -th character is `o`, then $T_i = ?.$

Constraints

- $1 \leq N \leq 2 \times 10^5$
- $0 \leq K$
- S is a string of length N consisting of `.`, `o`, `?`.

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- X is non-empty.
 - All given numerical values are integers.
-

Input

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

```
N K  
S
```

Output

Print the answer.

Sample Input 1

Copy

```
4 2  
o???
```

Copy

Sample Output 1

Copy

```
o..??
```

Copy

The set X consists of the two strings o.o. and o..o.

- The 1st character of every string in X is o, so T_1 is o.
 - The 2nd character of every string in X is ., so T_2 is ..
 - The 3rd character of a string in X can be either . or o, so T_3 is ?.
-

Sample Input 2

Copy

```
5 2  
?????
```

Copy

Sample Output 2

Copy

```
?????
```

Copy

Sample Input 3

Copy

```
7 3
.o???o.
```

Copy

Sample Output 3

Copy

```
.o.o.o.
```

Copy

#telegram)

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