

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 o s is exactly K .
- No two o s 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  
?????
```

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Sample Output 2

[Copy](#)

```
?????
```

[Copy](#)

Sample Input 3

[Copy](#)

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

[Copy](#)

Sample Output 3

[Copy](#)

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

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#telegram)

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