



# Richie Rich

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Sandy likes palindromes. A palindrome is a word, phrase, number, or other sequence of characters which reads the same backward as it does forward. For example, *madam* is a palindrome.

On her  $7^{\text{th}}$  birthday, Sandy's uncle, Richie Rich, offered her an  $n$ -digit check which she refused because the number was not a palindrome. Richie then challenged Sandy to make the number palindromic by changing no more than  $k$  digits. Sandy can only change **1** digit at a time, and cannot add digits to (or remove digits from) the number.

Given  $k$  and an  $n$ -digit number, help Sandy determine the largest possible number she can make by changing  $\leq k$  digits.

**Note:** Treat the integers as numeric strings. Leading zeros are permitted and can't be ignored (So 0011 is not a palindrome, 0110 is a valid palindrome). A digit *can* be modified more than once.

## Input Format

The first line contains two space-separated integers,  $n$  (the number of digits in the number) and  $k$  (the maximum number of digits that can be altered), respectively.

The second line contains an  $n$ -digit string of numbers that Sandy must attempt to make palindromic.

## Constraints

- $0 < n \leq 10^5$
- $0 \leq k \leq 10^5$
- Each character  $i$  in the number is an integer where  $0 \leq i \leq 9$ .

## Output Format

Print a single line with the largest number that can be made by changing no more than  $k$  digits; if this is not possible, print `-1`.

## Sample Input 0

```
4 1
3943
```

## Sample Output 0

```
3993
```

## Sample Input 1

```
6 3
092282
```

## Sample Output 1

992299

**Sample Input 2**

```
4 1
0011
```

**Sample Output 2**

```
-1
```

**Explanation***Sample 0*

There are two ways to make **3943** a palindrome by changing exactly  $k = 1$  digits:

1. **3943** → **3443**
2. **3943** → **3993**

**3993** > **3443**, so we print **3993**.



[f](#) [t](#) [in](#)Submissions: [13902](#)

Max Score: 30

Difficulty: Medium

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Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     static String richieRich(String s, int n, int k){
10         // Complete this function
11     }
12
13     public static void main(String[] args) {
14         Scanner in = new Scanner(System.in);
15         int n = in.nextInt();
16         int k = in.nextInt();
17         String s = in.next();
18         String result = richieRich(s, n, k);
19         System.out.println(result);
20     }
21 }
22
```

Line: 1 Col: 1

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