



Highest Value Palindrome ☆

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Problem

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Palindromes are strings that read the same from the left or right, for example *madam* or *0110*.

You will be given a string representation of a number and a maximum number of changes you can make. Alter the string, one digit at a time, to create the string representation of the largest number possible given the limit to the number of changes. The length of the string may not be altered, so you must consider 0's left of all higher digits in your tests. For example **0110** is valid, **0011** is not.

Given a string representing the starting number and a maximum number of changes allowed, create the largest palindromic string of digits possible or the string -1 if it's impossible to create a palindrome under the constraints.

Function Description

Complete the `highestValuePalindrome` function in the editor below. It should return a string representing the largest value palindrome achievable, or -1.

`highestValuePalindrome` has the following parameter(s):

- `s`: a string representation of an integer
- `n`: an integer that represents the length of the integer string
- `k`: an integer that represents the maximum number of changes allowed

Input Format

The first line contains two space-separated integers, n and k , the number of digits in the number and the maximum number of changes allowed. The second line contains an n -digit string of numbers.

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 no more than $k = 1$ digits:

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

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

C#



```
1 using System.CodeDom.Compiler;
2 using System.Collections.Generic;
3 using System.Collections;
4 using System.ComponentModel;
5 using System.Diagnostics.CodeAnalysis;
6 using System.Globalization;
7 using System.IO;
8 using System.Linq;
9 using System.Reflection;
10 using System.Runtime.Serialization;
11 using System.Text.RegularExpressions;
12 using System.Text;
13 using System;
14
15 class Solution {
16
17     // Complete the highestValuePalindrome function below.
18     static string highestValuePalindrome(string s, int n, int k)
19     {
20         Console.WriteLine($"Informações = {n} e {k}");
21         char[] result = new char[n];
22         int meio = n/2;
23         int cont = 0;
24
```