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Practice > Algorithms > Strings > Highest Value Palindrome

Highest Value Palindrome ☆

Submissions

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 yalid **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 contstraints.

Input Format

The first line contains two space-separated integers, n (the number of digits in the number) and k (the maximum number of changes allowed), respectively.

The second line contains an n-digit string of numbers that you are to attempt to make palindromic.

Constraints

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

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

Author	nabila_ahmed
Difficulty	Medium
Max Score	30
Submitted By	17814

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```
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 \rightarrow 3443 2.\ 3943 \rightarrow 3993 3993 > 3443, so we print 3993.
```

```
K Z SS
                                           Java 7
Current Buffer (saved locally, editable) ို 🖔
 1 ▼ import java.io.*;
 2 import java.math.*;
 3 import java.text.*;
    import java.util.*;
 5
    import java.util.regex.*;
 7 ▼ public class Solution {
 8
 9
10 🔻
         * Complete the highestValuePalindrome function below.
11
12
         static String highestValuePalindrome(String s, int n, int k) {
13
14
              * Write your code here.
15
16
17
18
        }
19
20
21
        private static final Scanner scan = new Scanner(System.in);
22
23 ▼
         public static void main(String[] args) throws IOException {
24
             BufferedWriter bw = new BufferedWriter(new
    FileWriter(System.getenv("OUTPUT_PATH")));
25
             String[] nk = scan.nextLine().split(" ");
26
27
28 ▼
             int n = Integer.parseInt(nk[0].trim());
29
30 ▼
            int k = Integer.parseInt(nk[1].trim());
31
32
             String s = scan.nextLine();
33
34
             String result = highestValuePalindrome(s, n, k);
35
36
             bw.write(result);
37
             bw.newLine();
38
39
             bw.close();
40
         }
    }
41
```

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