#include <bits/stdc++.h>  
using namespace std;  
  
char out[100];  
  
int main () {  
  
    //len=string length,first=first digit,last=last digit,k=max   
limit,n=no of digits  
    int n, len, first, last, k;  
    string str;  
  
    cin>>n>>k;  
    cin>>str;  
    len = str.size();  
  
    first = 0; last = len-1;  
    while(first <= last)  
    {  
         //check for the first and last digit  
         if(first == last)  
            {  
                    out[first] = str[first];  
                    break;  
            }  
            if(str[first] == str[last])  
            {  
                    out[first] = str[first];  
                    out[last] = str[last];  
            }  
            else  
            {  
                    if(str[first] >= str[last])  
                    {  
                            k--;  
                            out[first] = out[last] = str[first];  
                    }  
                    else  
                    {  
                            k--;  
                            out[first] = out[last] = str[last];  
                    }  
            }  
            first++;  
            last--;  
    }  
  
    if(k < 0)  
    {  
            printf("-1\n"); //print -1 when k<=0  
            return 0;  
    }  
  
    //Maximizing number  
    first = 0; last = len-1;  
    while(first <= last)  
    {  
            if(first == last)  
            {  
                    if(out[first]<'9' && k>=1)  
                         out[first] = '9';  
                    break;  
            }  
            first++;  
            last--;  
    }  
    out[len] = '\0';  
    printf("%s\n", out);  
  
    return 0;  
}