

## C. Polo the Penguin and Strings

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

Little penguin Polo adores strings. But most of all he adores strings of length  $n$ .

One day he wanted to find a string that meets the following conditions:

1. The string consists of  $n$  lowercase English letters (that is, the string's length equals  $n$ ), exactly  $k$  of these letters are distinct.
2. No two neighbouring letters of a string coincide; that is, if we represent a string as  $s = s_1s_2...s_n$ , then the following inequality holds,  $s_i \neq s_{i+1}$  ( $1 \leq i < n$ ).
3. Among all strings that meet points 1 and 2, the required string is lexicographically smallest.

Help him find such string or state that such string doesn't exist.

String  $x = x_1x_2...x_p$  is *lexicographically less* than string  $y = y_1y_2...y_q$ , if either  $p < q$  and  $x_1 = y_1, x_2 = y_2, \dots, x_p = y_p$ , or there is such number  $r$  ( $r < p, r < q$ ), that  $x_1 = y_1, x_2 = y_2, \dots, x_r = y_r$  and  $x_{r+1} < y_{r+1}$ . The characters of the strings are compared by their ASCII codes.

### Input

A single line contains two positive integers  $n$  and  $k$  ( $1 \leq n \leq 10^6, 1 \leq k \leq 26$ ) — the string's length and the number of distinct letters.

### Output

In a single line print the required string. If there isn't such string, print "-1" (without the quotes).

### Examples

<b>input</b>
7 4
<b>output</b>
ababacd

  

<b>input</b>
4 7
<b>output</b>
-1