

A. 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

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|---------------|
| input |
| 7 4 |
| output |
| ababacd |

| |
|---------------|
| input |
| 4 7 |
| output |
| -1 |