W - Dreamoon and Stairs

Dreamoon wants to climb up a stair of *n* steps. He can climb 1 or 2 steps at each move. Dreamoon wants the number of moves to be a multiple of an integer *m*.

What is the minimal number of moves making him climb to the top of the stairs that satisfies his condition?

**Input**

The single line contains two space separated integers *n*, *m* (0 < *n* ≤ 10000, 1 < *m* ≤ 10).

**Output**

Print a single integer — the minimal number of moves being a multiple of *m*. If there is no way he can climb satisfying condition print  - 1 instead.

**Examples**

**Input**

10 2

**Output**

6

**Input**

3 5

**Output**

-1

**Note**

For the first sample, Dreamoon could climb in 6 moves with following sequence of steps: {2, 2, 2, 2, 1, 1}.

For the second sample, there are only three valid sequence of steps {2, 1}, {1, 2}, {1, 1, 1} with 2, 2, and 3 steps respectively. All these numbers are not multiples of 5.