Given a positive integer K, you need find the **smallest** positive integer N such that N is divisible by K, and N only contains the digit **1**.

Return the length of N.  If there is no such N, return -1.

**Example 1:**

**Input:** 1

**Output:** 1

**Explanation:** The smallest answer is N = 1, which has length 1.

**Example 2:**

**Input:** 2

**Output:** -1

**Explanation:** There is no such positive integer N divisible by 2.

**Example 3:**

**Input:** 3

**Output:** 3

**Explanation:** The smallest answer is N = 111, which has length 3.

**Note:**

* 1 <= K <= 10^5