483. Smallest Good Base

Description

Given an integer n represented as a string, return the smallest good base of n.

We call $k \ge 2$ a good base of n, if all digits of n base k are 1's.

Example 1:

```
Input: n = "13"
Output: "3"
Explanation: 13 base 3 is 111.
```

Example 2:

```
Input: n = "4681"
Output: "8"
Explanation: 4681 base 8 is 11111.
```

Example 3:

```
Input: n = "10000000000000000"
Output: "99999999999999"
Explanation: 10000000000000000 base 9999999999999 is 11.
```

Constraints:

- n is an integer in the range [3, 10 18].
- n does not contain any leading zeros.