

D Digit Display

Time limit: 1s

After Olimar’s departure from PNF-404, the Pikmin became bored and lonely. Wanting to impress Olimar on his potential return, and knowing how mathematically inclined Olimar is, they find a 7-segment display. Upon learning what its symbols represent, they think the best way to impress Olimar would be to represent the biggest number possible with their bodies on the ground, in hopes that Olimar will see it from his spaceship and return.

Each Pikmin can form exactly one segment by placing their body on the ground. The space on the ground is unbounded. Given the number of Pikmin available to help, what is the largest possible number that their bodies can form?

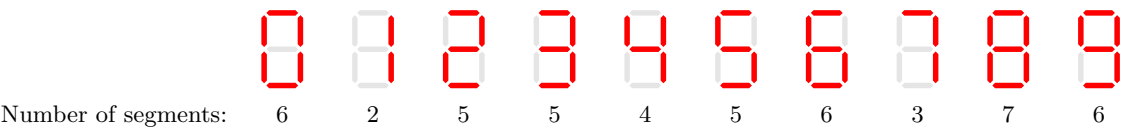


Figure D.1: A visualization of how each of the digits 0–9 are displayed on a 7-segment display, with the number of segments required.

Input

The input consists of:

- One line with an integer n ($1 \leq n \leq 1000$), the number of available Pikmin.

Output

If it is possible for the Pikmin to form a number with their bodies on the ground using exactly n segments, output the largest possible number. Otherwise, output “impossible”.

| Sample Input 1 | Sample Output 1 |
|----------------|-----------------|
| 1 | impossible |

| Sample Input 2 | Sample Output 2 |
|----------------|-----------------|
| 2 | 1 |