Time Limit: 1.0s   **Memory Limit:** 64M

KODTÜ6 Question D
Multiple of Seven

Execution time limit is 1 seconds.
Runtime memory usage limit is 64 megabytes.

A number is given. Ahmet wants to replace one digit in it so that the new number is divisible by 7 and is the largest possible. In the given number, it is necessary to replace one digit, even if it is already divisible by 7. Since Ahmet has just started attending an elective course on programming, he asks you for help.

Input

The input consists of a single integer n (1≤n≤10^8).

Output

Output is the new number, which is the largest 7-divisible number differing from the input by exactly one digit, divisible by 7.

Examples

Input 1:

```
123
```

Output 1:

```
623
```

Input 2:

```
8
```

Output 2:

```
7
```