COCI '14 Contest 4 #1 Cesta

Time limit: 1.0s   **Memory limit:** 32M

One morning, completely by chance, Mirko found a positive integer N in the middle of the street. Since Mirko adores the number 30, he wants to know the maximum multiple of the number 30 that can be obtained by *shuffling* the digits of the number he found in the street. Help our hero and write a programme that calculates that number (if it exists).

Input

The first and only line of input contains the integer N, consisting of at most 10^5 digits.

Output

The first and only line of output must contain the required number from the task, if it exists. If it doesn't exist, output `-1`.

Sample Input 1

```
30
```

Sample Output 1

```
30
```

Sample Input 2

```
102
```

Sample Output 2

```
210
```

Sample Input 3

```
2931
```

Sample Output 3

```
-1
```