

A. Lucky Sum of Digits

time limit per test: 2 seconds
 memory limit per test: 256 megabytes
 input: standard input
 output: standard output

Petya loves lucky numbers. We all know that lucky numbers are the positive integers whose decimal representations contain only the lucky digits **4** and **7**. For example, numbers **47**, **744**, **4** are lucky and **5**, **17**, **467** are not.

Petya wonders eagerly what minimum lucky number has the sum of digits equal to n . Help him cope with the task.

Input

The single line contains an integer n ($1 \leq n \leq 10^6$) — the sum of digits of the required lucky number.

Output

Print on the single line the result — the minimum lucky number, whose sum of digits equals n . If such number does not exist, print -1.

Examples

input
11
output
47

input
10
output
-1

→ Attention

Package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then value 800 ms will be displayed and used to determine the verdict.

Codeforces Beta Round #84 (Div. 1 Only)

Finished

→ Virtual participation

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Start virtual contest

→ Problem tags

brute force implementation

No tag edit access

→ Contest materials

- Announcement 
- Tutorial 