Author: Davor Ljubenkov, Aalborg University Supervisor: Sokol Kosta, Aalborg University License: GPL v3.0

Copyright: COCI

## Lucky

Digits 4 and 7 are lucky, while all others are unlucky. An integer is lucky if it contains only lucky digits in decimal notation. We would like to know the K-th lucky positive integer.

## Input

The first and only line of input contains a positive integer K ( $1 \le K \le 10^9$ ).

## Output

The first and only line of output must contain the K-th lucky positive integer.

| Sample input | Sample output |
|--------------|---------------|
| 1            | 4             |
|              |               |
| 2            | 7             |
|              |               |
| 3            | 44            |
|              |               |