COCI '10 Contest 1 #3 Sretan

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

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 Specification

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

Output Specification

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

Sample Input 1

```
1
```

Sample Output 1

```
4
```

Sample Input 2

```
2
```

Sample Output 2

```
7
```

Sample Input 3

```
3
```

Sample Output 3

```
44
```