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detest of threes

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Problem

Submissions

Leaderboard

Discussions

HP;(Hewlett-Packard) is a leading American multinational computer system manufacturer in the world.

The company Hewlett-Packard doesn't like integers that are divisible by 3 or end with the digit 3 in their decimal representation. Integers that meet both conditions are disliked by Hewlett-Packard, too.

Hewlett-Packard starts to write out the positive (greater than 0) integers which he likes: 1,2,4,5,7,8,10,11,14,16,....

Write a program to print the output k-th element of this sequence (the elements are numbered from 1), where user will just enter the position only.

Input Format

The first line contains one integer value of k($1 \leq k \leq 1000$)

Constraints

($1 \leq k \leq 1000$)

Output Format

the k-th element of the sequence that was written out by Hewlett-Packard.

Sample Input 0

```
2
```

Sample Output 0

```
2
```

Explanation 0

Hewlett-Packard Sequence: 1,2,4,5,7,8,10,11,14,16,....
value at position 2(k=2) is 2
index = position - 1

Sample Input 1

```
5
```

Sample Output 1

```
7
```

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Submissions: 205

Max Score: 10

Difficulty: Medium

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Python 3



```
1 index = int(input())
2 count = 0
3 num = 1
4 while count < index:
5     if num % 3 != 0 and num % 3 != 3:
6         count += 1
7     if count == index:
8         print(num)
9     num += 1
```

Line: 1 Col: 1

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Test against custom input

Run Code

Submit Code