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COMPETE

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rudhran_b_2020_1 ▾

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PL-2022-C-Lucky Number

locked

Problem

Submissions

Leaderboard

Discussions

A number is considered lucky if it contains either 3 or 4 or 3 and 4 both in it. Write a program to print the nth lucky number. Example, 1st lucky number is 3, and 2nd lucky number is 4 and 3rd lucky number is 33 and 4th lucky number is 34 and so on. Note that 13, 40 etc., are not lucky as they have other numbers in it.

The program should accept a number 'n' as input and display the nth lucky number as output.

Input Format

-

Constraints

-

Output Format

-

Sample Input 0

3

Sample Output 0

33

Explanation 0

Here the lucky numbers are 3, 4, 33, 34., and the 3rd lucky number is 33.

Sample Input 1

34

Sample Output 1

33344

Submissions: 348

Max Score: 100

Difficulty: Medium

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C



```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int is_lucky(int N){
7     while(N>0){
8         if((N%10)!=3&&(N%10)!=4){
9             return 0;
10        }
11        N/=10;
12    }
13    return 1;
14 }
15
16 int main() {
17     int lim, count=0, n=1, a=-1;
18     scanf("%d",&lim);
19     while(count<=lim){
20         if(is_lucky(n))
21             count++;
22         if(count==lim){
23             a=n;
24             break;
25         }
26         n++;
27     }
28     printf("%d",a);
29     return 0;
30 }
31
```

Line: 1 Col: 1

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