

Câu hỏi 3

Chính xác

Chấm điểm của 2,00

A nice number is a positive integer that contains only 2's and 5's.

Some nice numbers are: 2, 5, 22, 25, 52, 55, ...

Number 2 is the first nice number.

Given an integer N, return the Nth nice number.

Note: iostream, vector, queue are already included for you.

Constraint:

$1 \leq n \leq 10^6$

Example 1:

Input:

n = 5

Output:

52

Explanation:

The sequence of nice numbers is 2, 5, 22, 25, 52, 55, ...

The 5th number in this sequence is 52

Example 2:

Input:

n = 10000

Output:

2255522252225

For example:

Test	Input	Result
<pre>int n; cin >> n; cout << nthNiceNumber(n) << endl;</pre>	5	52
<pre>int n; cin >> n; cout << nthNiceNumber(n) << endl;</pre>	10000	2255522252225

Answer: (penalty regime: 0, 0, 0, 5, 10, ... %)

Reset answer

```
1 // iostream, vector and queue are included
2 // You can write helper methods
3
4 long long nthNiceNumber(int n) {
5     queue<long long> q;
6     q.push(2);
7     q.push(5);
8     long long num = 0;
9     for (int i = 1; i <= n; i++) {
10         num = q.front();
11         q.pop();
12         q.push(num * 10 + 2);
13         q.push(num * 10 + 5);
14     }
15     return num;
```

16 | }

Precheck

Kiểm tra

	Test	Input	Expected	Got	
✓	int n; cin >> n; cout << nthNiceNumber(n) << endl;	5	52	52	✓
✓	int n; cin >> n; cout << nthNiceNumber(n) << endl;	10000	2255522252225	2255522252225	✓

Passed all tests! ✓

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