#include <bits/stdc++.h>

using namespace std;

int power(int x, unsigned int y)

{

if (y == 0)

return 1;

if (y % 2 == 0)

return (power(x, y / 2) \* power(x, y / 2));

return (x \* power(x, y / 2) \* power(x, y / 2));

}

int order(int x)

{

int n = 0;

while (x) {

n++;

x = x / 10;

}

return n;

}

bool isArmstrong(int x)

{

// Calling order function

int n = order(x);

int temp = x, sum = 0;

while (temp) {

int r = temp % 10;

sum += power(r, n);

temp = temp / 10;

}

// If satisfies Armstrong

// condition

return (sum == x);

}

int main()

{

int x = 153;

cout << boolalpha << isArmstrong(x) << endl;

x = 1253;

cout << boolalpha << isArmstrong(x) << endl;

return 0;

}