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The Virtual Learning Environment for Computer Programming

## **Triplet Numbers**

X99068\_en

A natural number n > 0 is a *triplet-number* if it is composed of triplets of digits where each triplet repeats the same digit exactly 3 times. For example: 222, 666555666, 444444 and 111000 are triplet-numbers.

Write a program that, given a sequence of natural numbers, prints TRUE if the read number is a triplets-number and FALSE otherwise.

In order to solve this problem, you have to provide a RECURSIVE implementation of the following function:

Additionally you must use the following code:

```
int main() {
int n;
while (cin >> n) {
  if (triplet_number(n)) cout << "TRUE" << endl;
  else cout << "FALSE" << endl;
}
}</pre>
```

**Exam score:** 3.000000 **Automatic part:** 100.000000%

#### Input

The input are numbers in the interval  $[1, 10^9)$ 

#### Output

For each number in the input sequence, the program prints TRUE if the number is a tripletnumber and FALSE otherwise.

Sample input 1	Sample output 1
222 9 100 666555666 444444 111000	TRUE FALSE FALSE TRUE TRUE TRUE
<b>Sample input 2</b> 7  888111  90	777222 313444 2223

### Sample output 2

FALSE TRUE FALSE TRUE FALSE FALSE

#### Observation

IMPORTANT: Iterative solutions or those altering the function header will be considered INVALID (zero score for both automatic and manual parts)

### **Problem information**

Author : Edelmira Pasarella Generation : 2019-05-03 12:10:40

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