
ITERATIVE Write each digit of a number as many times as the digit value plus 1
X11093_en

You have to write an **ITERATIVE** procedure `write_digit(d,x)` that receives a digit d and a natural number x , and writes x times the digit d in the standard output (`cout`). For example, the call `write_digit(3,5)` writes 33333, whereas the call `write_digit(5,3)` writes 555.

You have also to write an **ITERATIVE** procedure `write_expanded(n)` that receives a natural number $n > 0$, and writes in the standard output (`cout`) each digit of n as many times as the digit value plus 1. For instance, `write_expanded(315)` writes 333311555555 in the `cout`, whereas `write_expanded(204)` writes 222044444. Your implementation of `write_expanded(n)` must conveniently use the function `write_digit(d,x)`.

Your implementation of both procedures must be **ITERATIVE** and use the following C++ code, modifying only the parts that are indicated. Notice that the main procedure below writes an end-of-line after each call to `write_expanded`. Thus, the procedures must not write the end-of-line.

```
#include <iostream>
using namespace std;

// define here additional functions and/or procedures
// if you need them

// Pre: 0<=d<=9 and 0<=x.
void write_digit(int d,int x) {
    // insert here your (ITERATIVE) code
}

// Pre: 0<n.
void write_expanded(int n) {
    // insert here your (ITERATIVE) code
}

int main() {
    int n;
    while (cin >> n) {
        write_expanded(n);
        cout << endl;
    }
}
```

=====
CATALÀ

=====
Escriu un procediment **ITERATIU** `write_digit(d,x)` que rep un dígit d i un número natural x , i escriu x vegades el dígit d en la sortida estàndard (`cout`). Per exemple, la crida `write_digit(3,5)` escriu 33333, mentres que la crida `write_digit(5,3)` escriu 555.

La teva implementació dels dos procediments ha de ser **ITERATIVA** i utilitzar el codi C++ donat més amunt, modificant exclusivament les parts indicades. Fixa't que la funció `main` escriu un salt de línia després de cada crida a `write_expanded`, i per tant els teus procediments no han d'escriure salts de línia.

Input

=====

CATALÀ

Output

Sample input

Sample output

[illegible]

<http://www.jutge.org>