
Function to fatten numbers

P58819_en

In this problem, given any natural number x with n digits $x_1 \dots x_n$, we say that $y = y_1 \dots y_n$ is the result of fattening x if, for every i between 1 and n , $y_i = \max\{x_1, \dots, x_i\}$. For instance, if we fatten 7 we get 7, if we fatten 32064781 we get 33366788, and if we fatten 9000000 we get 9999999.

Write a function

```
int fatten (int x);
```

to return the result of fattening @x@. You may implement and use auxiliary procedures.

Precondition

It holds $0 < @x@ < 10^9$.

Observation

You only need to submit the required procedure; your main program will be ignored.

Problem information

Author: Jordi Cortadella

Translator: Salvador Roura

Generation: 2026-01-25T11:31:40.522Z

© Jutge.org, 2006–2026.

<https://jutge.org>