In this problem, given any natural number \( x \) with \( n \) digits \( x_1 \ldots x_n \), we say that \( y = y_1 \ldots y_n \) is the result of fattening \( x \) if, for every \( i \) between 1 and \( n \), \( y_i = \max\{x_1, \ldots, x_i\} \). 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

\[
\text{int fatten (int x);} \\
\]

to return the result of fattening \( x \). You may implement and use auxiliary procedures.

**Precondition**

It holds \( 0 < x < 10^n \).

**Observation**

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