
Insertion into a sorted table

P98179_en

Write a procedure that, supposing that all the positions of v , except maybe the last one, are in non-decreasing order, leaves v totally in non-decreasing order.

For instance, if v is $\langle 2, 4, 7, 7, 8, 9, 5 \rangle$, it must become $\langle 2, 4, 5, 7, 7, 8, 9 \rangle$.

Interface

C++	<code>void insert (vector<double>& v);</code>
C	<code>void insert (int n, double v[n]);</code>
Java	<code>public static void insert (double[] v);</code>
Python	<code>insert (v) # returns None</code>
MyPy	<code>insert (v: list [float]) → None</code>

Precondition

We have $v \geq 1$. Moreover, the positions 0 to $v - 2$ of v are in non-decreasing order.

Observation

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

Problem information

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