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

Precondition

We have $\mathrm{v} \geq 1$. Moreover, the positions 0 to $\mathrm{v} - 2$ 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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