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*]) → *None*

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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