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

Precondition

We have $v.size() \geq 1$. Moreover, the positions 0 to $v.size() - 2$ 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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