
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> (v) # returns None |
| MyPy | <i>insert</i> (v : list [float]) \rightarrow 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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