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## Array merge

P70093\_en

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Write a function that merges the sorted vectors  $v1$  and  $v2$  and returns the result, repeated elements included. For instance, the result of merging a vector with 2, 3 and 5 with a vector with 3, 5, 5 and 7 is a vector with 2, 3, 3, 5, 5, 5 and 7.

### Interface

C++	<b>vector&lt;double&gt;</b> <i>merge</i> ( <b>const vector&lt;double&gt;&amp;</b> $v1$ , <b>const vector&lt;double&gt;&amp;</b> $v2$ );
Java	<b>public static double[]</b> <i>merge</i> ( <b>double[]</b> $v1$ , <b>double[]</b> $v2$ );
Python	<i>merge</i> ( $v1$ , $v2$ ) # returns list
MyPy	<i>merge</i> ( $v1$ : list [ float ], $v2$ : list [ float ]) → list [ float ]:

### Precondition

$v1$  and  $v2$  are sorted in nondecreasing order.

### Observation

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

### Problem information

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