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**Array union****X77575\_en**

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Write a function that returns a sorted vector with the union of two sorted vectors  $v_1$  and  $v_2$ . The result must have the elements in  $v_1$  and the elements in  $v_2$ , without repetitions. For example, the union of a vector with 1,2,2,5,5,7 and a vector with 2,3,3,7 is a vector with 1,2,3,5,7.

**Interface**

```
vector<double> array_union(const vector<double>& v1, const vector<double>& v2);
```

**Observation**

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

**Problem information**

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