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**Array symmetric difference****X23420\_en**

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Write a function that returns a sorted vector with the symmetric difference of two sorted vectors  $v_1$  and  $v_2$ . The result must have the elements in  $v_1$  that are not in  $v_2$  and the elements in  $v_2$  that are not in  $v_1$ , without repetitions. For example, the symmetric difference of a vector with 1, 2, 2, 5, 5, 7 and a vector with 2, 3, 3, 7 is a vector with 1, 3, 5.

**Interface**

```
vector<double> symmetric_difference(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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