Write a function that merges the sorted vectors $v_1$ and $v_2$ 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++

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

Java

```java
public static double[] merge(double[] v1, double[] v2);
```

Python

```python
merge(v1, v2) # returns list
```

MyPy

```python
merge(v1: list[float], v2: list[float]) -> list[float]:
```

**Precondition**

$v_1$ and $v_2$ 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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