Write an efficient function

```cpp
bool resistant_search (double x, const vector<double>& v);
```

that tells if \( x \) belongs to the vector \( v \) or not.

**Precondition**

The vector \( v \) is “almost sorted” in nondecreasing order, in the sense that there may be at most a pair of indices \( i \) and \( j \) such that \( 0 \leq i < j < n \) and \( v[i] > v[j] \).

**Observation**

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