Write a function

```cpp
int common_elements(const vector<int>& X, const vector<int>& Y);
```

that given two vectors $X$ and $Y$ in increasing order, returns the number of common elements in the two vectors, that is, the number of integer numbers $a$ such that $a = X[i] = Y[j]$ for any $i$ and $j$.

**Precondition**

The two vectors are in strictly increasing order.

**Samples**

```cpp
common_elements([3, 5, 7, 8], [2, 3, 7, 9, 10]) = 2.
common_elements([1, 2, 3, 4, 5], [3, 4, 5, 6, 7, 8]) = 3.
common_elements([1, 2, 3, 4, 5], [8, 9]) = 0.
```

**Problem information**

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