
Common elements

P12675_en

Write a function

```
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

```
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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