Consider this function:

```cpp
int mystery(const vector<int>& A, const vector<int>& B) {
    int n = A.size();
    int res = 0;
    for (int i = 0; i < n; ++i)
        for (int j = 0; j < n; ++j)
    return res;
}
```

Implement an alternative function, with the same name, return type and parameters, that computes the same, but as efficiently as possible.

**Precondition**

Assume that \(A\) and \(B\) have the same number \(n\) of elements, that \(n\) is between 1 and \(10^5\), and that the elements of the vectors are all between 1 and \(10^8\).

**Observation**

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

**Problem information**

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