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The Virtual Learning Environment for Computer Programming

Function optimization

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Setzè Concurs de Programació de la UPC - Semifinal (2018-06-20)

Consider this function:

```
int mistery (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)

if (A[i] \neq A[j]) res = max(res, B[i] + B[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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