
Scalar product**P71310_en**

The scalar product of two vectors $u = (u_0, \dots, u_{n-1})$ and $v = (v_0, \dots, v_{n-1})$ is $\sum_{i=0}^{n-1} u_i v_i$.

Write a function that returns the scalar product of u and v .

Interface

C++	double <i>scalar_product</i> (const vector < double >& u , const vector < double >& v);
C	double <i>scalar_product</i> (int n , double $u[n]$, double $v[n]$);
Java	public static double <i>scalarProduct</i> (double [] u , double [] v);
Python	<i>scalar_product</i> (u , v) # returns float
MyPy	<i>scalar_product</i> (u : list [float], v : list [float]) \rightarrow float

Precondition

The vectors u and v have the same size.

Observation

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

Problem information

Author : Jordi Petit

Translator : Carlos Molina

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