Scalar product P71310_en

The scalar product of two vectors $u = (u_0, \ldots, u_{n-1})$ and $v = (v_0, \ldots, v_{n-1})$ 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** *scalar_product* (**const vector**<**double**>& u, **const vector**<**double**>& v);
C	**double** *scalar_product* (**int** n, **double** u[n], **double** v[n]);
Java	**public static double** *scalarProduct*(**double**[] u, **double**[] v);
Python	*scalar_product* (u, v) # returns float
	scalar_product (u: *list* , v: *list*) $\rightarrow$ *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
Generation : 2016-12-15 16:53:57

© *Jutge.org*, 2006–2016.
http://www.jutge.org