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## Products of any matrices

P88905\_en

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Write a function that, given two matrices  $a$  and  $b$ , computes their product.

### Interface

C++	<b>typedef</b> <b>vector</b> < <b>vector</b> < <b>int</b> > > <i>Matrix</i> ; <i>Matrix</i> <i>product</i> ( <b>const</b> <i>Matrix</i> & <i>a</i> , <b>const</b> <i>Matrix</i> & <i>b</i> );
MyPy	<i>Matrix</i> : <i>TypeAlias</i> = list [ list [ int ] ] <b>def</b> <i>product</i> ( <i>a</i> : <i>Matrix</i> , <i>b</i> : <i>Matrix</i> ) → <i>Matrix</i>

### Precondition

$a$  is a matrix  $p \times q$  and  $b$  is a matrix  $q \times r$ , with  $p, q, r \geq 1$ .

### Problem information

Author : Jordi Petit

Translator : Carlos Molina

Generation : 2022-11-25 08:20:37

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