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## Products of any matrices

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

### Interface

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

### Precondition

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

### Problem information

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