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

Interface

C++

```cpp
typedef vector<vector<int>> Matrix;
Matrix product(const Matrix& a, const Matrix& b);
```

MyPy

```python
def product(a: Matrix, b: Matrix) -> Matrix
```

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: 2023-07-14 18:23:41

https://jutge.org