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## Product of square matrices

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Using the declaration

```
typedef vector< vector<int> > Matrix;
```

Write a function

```
Matrix product(const Matrix& a, const Matrix& b);
```

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

### Precondition

$a$  and  $b$  are square matrices  $n \times n$  with  $n \geq 0$ .

### Problem information

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