

Task: ARA

A times B



BOI 2025, Day 0. Available memory: 256 MB.

2025.04.25

This task is designed to help you familiarize yourself with the SIO2 system.

Input

The first line contains an integer t denoting the number of test cases. Each of the subsequent t lines describes one test case. The i -th line contains two positive integers a_i and b_i .

Output

In the i -th line output one integer – the result of $a_i \cdot b_i$.

Example

For the input data:

```
2
1 1
3 5
```

the correct result is:

```
1
15
```

Explanation of the example: We have $1 \cdot 1 = 1$ and $3 \cdot 5 = 15$.

Scoring

| Subtask | Constraints | Points |
|---------|--|--------|
| 1 | $1 \leq t \leq 5, 1 \leq a_i, b_i \leq 5$ | 25 |
| 2 | $1 \leq t \leq 1000, 1 \leq a_i, b_i \leq 1000$ | 20 |
| 3 | $1 \leq t \leq 10^6, 1 \leq a_i, b_i \leq 10^9$ | 25 |
| 4 | $1 \leq t \leq 1000, 1 \leq a_i, b_i \leq 10^{18}$ | 15 |
| 5 | $1 \leq t \leq 10^6, 1 \leq a_i, b_i \leq 10^{18}$ | 15 |

Hint: In C++, the standard contest compiler provides a 128-bit signed integer type called `__int128`. Note that values of this type cannot be read from or printed to standard input/output in the usual way – you need to implement this yourself.

As a reminder, it's worth reviewing:

- the subtask table and memory limit provided in the problem statement,
- the submission limit for the problem (**50**) and the rule that the score for each subtask is the highest of all submissions,
- the **Test run** section and the limit (**50**) on the number of test runs per problem,
- the **Downloads** section, which includes time limits and other files,
- the **Questions and news** section,
- how the `submit` script works.