Problem: **Problem Statement**

Your younger brother was engrossed in his math assignment, which involved the art of multiplication. However, he found himself stumped by this seemingly simple task. Frustration etched across his face, he turned to you, seeking your guidance. Can you come to his rescue and help him unravel the mystery of multiplication?

The challenge is straightforward: you have two non-negative integer values, **A** and **B**. Your mission is to reveal the last two digits of their product, **A\*B**.

**Note**: You don't need to consider the leading zero.

**Input Format**

* First line will contain **T**, the number of test cases.
* Next **T** lines will contain **A** and **B**.

**Constraints**

1. 1 <= **T** <= 10^5
2. 0 <= **A, B** < 2^63

**Output Format**

* Output the last two digits for each test case. Don't forget to put a new line after each test case.

**Sample Input 0**

3

100 1

256 4512

12345 654321

**Sample Output 0**

0

72

45

Soluation:

#include<bits/stdc++.h>

using namespace std;

int last\_two\_digits(long long a, long long b)

{

int last\_two\_digits = ((a % 100) \* (b % 100)) % 100;

return last\_two\_digits;

}

int main()

{

int t;

cin >> t;

for (int i = 0; i < t; i++)

{

long long a, b;

cin >> a >> b;

int result = last\_two\_digits(a, b);

cout << result << endl;

}

return 0;

}