

## Problem A - Input Output

Given two integers  $a$  and  $b$ , output  $a + b$ ,  $a - b$ , and  $a \cdot b$ .

### Input

The first line contains an integer  $T$ , denoting the number of test cases. The next  $T$  lines each contain two integers  $a$  and  $b$  ( $-10^9 \leq a, b \leq 10^9$ ).

### Output

For each test case, output  $a + b$ ,  $a - b$ , and  $a \cdot b$  on a single line, separated by spaces.

### Sample Input

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```
3
1 2
-1 1
1 -1
```

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### Sample Output

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```
3 -1 2
0 -2 -1
0 2 -1
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