Q1. Given an array of integers, can you write a function to get the first non-repeated integer?

Examples

1) Input: 1, 2, 3, 1, 2, 4

Output: 3

2) Input: 3, 1, 1, 2, 3

Output: 2

Q2. Given a sentence write a function to output words that appear more than once followed by the number of times they appear in the sentence?

Examples

1) Input: *"Please complete the following recruitment questionnaire. The questionnaire consists of 10 questions and…"*

Output:

the: 2
questionnaire: 2

Q3. Write a multiply function that multiples 2 integers without using *

Q4. Can you see a way of improving the following PHP function? The code iterates over payroll records to see if transaction that they are part of has already been processed. It is safe to assume that there will generally be many records per transaction.

```
function processTransaction() {

        $db = Database::getInstance();
        $data = $db->sql('SELECT * FROM PayrollRecords WHERE Status = %s', ['Pending']);

        foreach ($data as $item) {
            $transaction = Transaction::getStatus($item['transactionId']);
            if ($transaction['processed']) {
                $recordId = $item['id'];
                PayrollRecord::markAsAccurate($recordId);

            }
        }

}
```