

Develop Now Test

Create a public git repository and share your test answers to our HR.

1. Refactor The Code

- Your task is to refactor below code.
- Hint: OOP is a plus.

```
$vehicleTypes = ['sport-car', 'truck', 'bike', 'boat'];
$vehiclesSpeed = [150, 60, 100, 50]; // vehicles speed in km/h

$distance = 350; // destination distance in km

print("Duration of each vehicle to reach destination\n");

for ($i=0;$i< count($vehicleTypes) ; $i++) {
    // The boat needs extra 15 min to get ready, so we add + 0.25H
    if ($vehicleTypes[$i] == 'boat') {
        print($vehicleTypes[$i] . ": ". ($distance/$vehiclesSpeed[$i]) + 0.25);
    } else {
        print($vehicleTypes[$i] . ": ". $distance/$vehiclesSpeed[$i]);
    }
}
```

2. Logic Test

- Write a PHP program that pushes half of the zeros in a given array to the beginning of the array, and the other half to the end.

Examples 1:

- Input: [3,5,6,0,7,0,1]
- Output: [0,3,5,6,7,1,0]

Examples 2:

- Input: [5,0,0,6,0,8]
- Output: [0,0,5,6,8,0]

Examples 3:

- Input: [1,2,3,0,0,0,0]
- Output: [0,0,1,2,3,0,0]

Examples 4:

- Input: [1,2,3]
- Output: [1,2,3]

```
function transformedArray(array $inputArray) : array {
    //your code here
}
```

3. Laravel Test

Create a simple e-commerce project with below tables

1. products

- name (string)
- price (int)
- category_id (int)
- image (string)
- deleted_at (timestamps) soft delete
- created_at (timestamps)
- updated_at (timestamps)

NOTE : (price data type is integer but must able able to store float value)

```
- eg1. 120 -> store as 12000
- eg2. 35.42 -> store as 3542
```

2. **cart_items**

- id (int)
- product_id (int)
- created_at (timestamps)
- updated_at (timestamps)

3. **product_categories**

- id (int)
- name (string)
- created_at (timestamps)
- updated_at (timestamps)

TODO

1. create migrations and models
 2. add relationships
 3. create below REST apis
- Product CRUD
 - (response must be with product category) and able to upload product image
 - Product categories CRUD
 - Cart items CRUD
 - (response must be with product and product category)

NOTE:

- Use Laravel resource for response
- Use repository pattern
- Must be able to test all of your codes