

TEST

I. Code

Amazon Shipping Service

They help Vietnamese buy products on amazon website.

After client provide items urls on Amazon, that will have:

- *amazon_price*
- *product_weight*
- *width*
- *height*
- *depth*

You have to write code to calculate gross price of an order (one order contains many items)

This is formulas:

- *gross_price = item1_price + item2_price + ...*
- *item_price = amazon_price + shipping_fee*
- *shipping_fee = max (fee_by_weight, fee_by_dimensions, ...)*
- *fee_by_weight = product_weight x weight_coefficient*
- *fee_by_dimension = width x height x depth x dimension_coefficient*

example coefficients:

- *weight_coefficient*: \$11/kg
- *dimension_coefficient*: \$11/m3

Expectations:

- write strong OOP code
- coefficients are configurable
- *shipping_fee* are flexible
 - We can add new a shiping fee type, for example: *fee_by_product_type*. shiping_fee of a smartphone (300g) must be less than ship a diamond ring (10g)
 - *shipping_fee = max (fee_by_weight, fee_by_dimensions, fee_by_product_type, ...)*