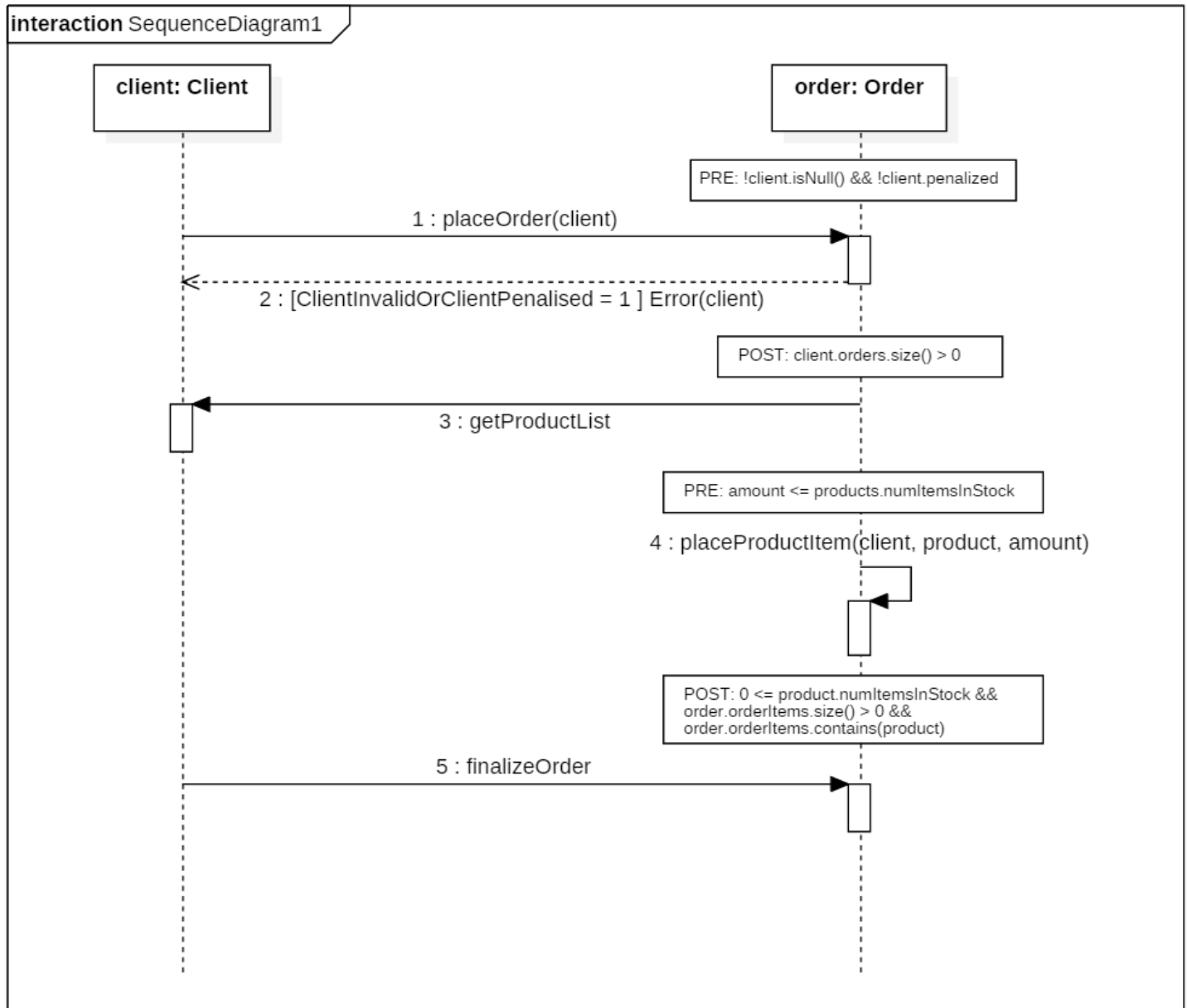


Homework #07

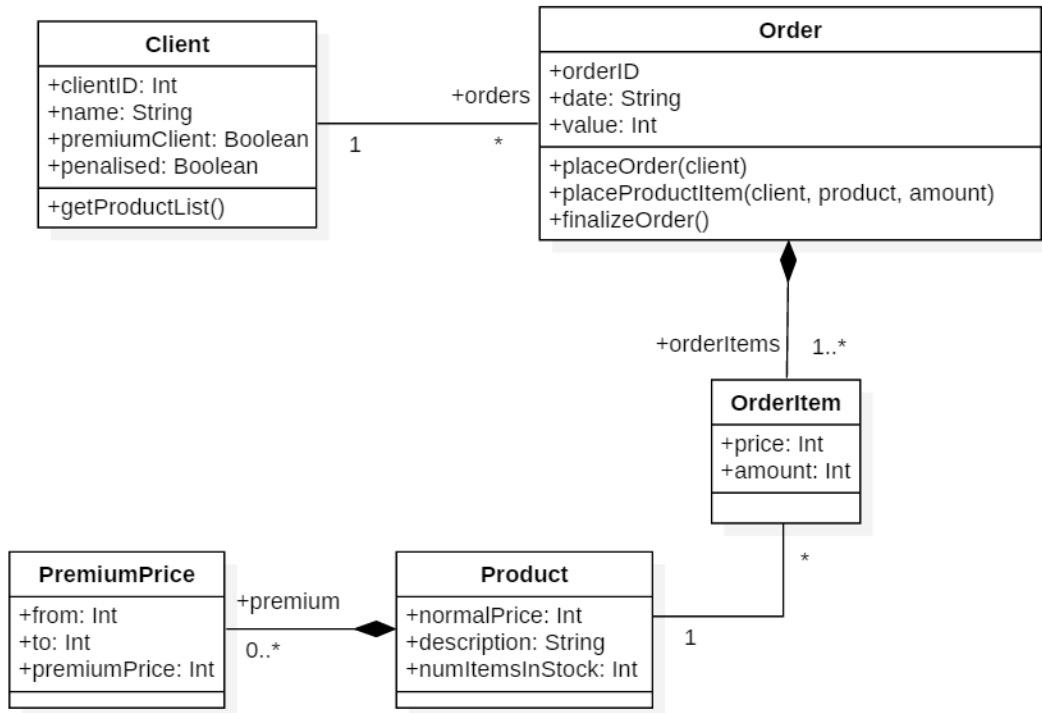
Alexey Iskhakov

BS2-3

Question 1.



Question 2.



Question 3.

```

/**
 * @pre: a precondition to test if a client is registered and not penalized.
 * @post: a postcondition to test if client's order list contains this order.
 * @param client: a client to bind order to.
 */
public void placeOrder(Client client){
    assert client != null && !client.penalised; //pre

    client.orders.add(this);

    assert client.orders.size() > 0; //post
}

/**
 * @pre: a precondition to test if amount is in limits.
 * @post: a postcondition to test if client's order contains this product;
 * @param client: a client to bind order to.
 * @param product: a product to add to the order.
 * @param amount: an amount of products to add,
 */
public void placeProductItem(Client client, Product product, int amount){
    assert amount <= product.numItemsInStock; //pre

    int price = client.premiumClient && amount >= 2 ?
        product.premium.premiumPrice : product.normalPrice;

    OrderItem item = new OrderItem(product, amount, price * amount);
    this.orderItems.add(item);

    assert 0 <= product.numItemsInStock && orderItems.size()>0 && orderItems.contains(item); //post
}

```

