Assignment 02 - Call a Stored Procedure with IN OUT Parameters

Let's assume that stored procedure product\_report does exist with the following definition:  
product\_report(productId **IN** products.product\_id%type,  
        categoryId **IN OUT** products.category\_id%type,  
        productName **OUT** products.product\_name%type)

This procedure receives three parameter;**IN**, **IN OUT**, and **OUT**.  
This procedure searches for productId and categoryId in the products table. If the product with this   
productId and categoryId exists it stores the values of category\_id and product-name columns into corresponding parameters.  
If the product with the given productId and categoryId does not exist, the procedure stores zero and 'Not Found'   
to the corresponding parameters:  
categoryId := 0;  
productName := 'Not Found';

The following example shows how to call product\_report in a C++ function.

void **displayProduct**(Connection\* conn, int productId, int categoryId) {

    string productName;  
    Statement\* stmt = nullptr;  
    stmt = conn->createStatement("BEGIN product\_category(:1, :**2,** :3); END;");  
    stmt->setInt(1, productId);  
  **stmt->setInt(2, categoryId);**  
    stmt->registerOutParam(3, Type::OCCISTRING, sizeof(productName));  
    stmt->execute();  
    **categoryId = stmt->getInt(2);**  
    productName = stmt->getString(3);  
}