

Assignment 12

Task 1

Barcodes



Vulnerability

Description

The vulnerable point is in the query execution at line 23:

```
cur.execute("SELECT price FROM products WHERE id = %s" % barcode)
```

To exploit this, one can pass in "0 UNION SELECT 1" as the id. The query then becomes:

```
SELECT price FROM products WHERE id = 0 UNION SELECT 1
```

The above query only works if there are no products in the database with ID = 0. Given this, the query will always return 1.

Fix

The problem lies in using string interpolation with %, since it won't escape the input parameters correctly. To fix the vulnerability, replace line 23 with this:

```
cur.execute("SELECT price FROM products WHERE id = %s", barcode)
```

This will properly escape the input parameters, making SQL-injection impossible.

Task 2

Moderate (4 / flag)

Hello World!

Native

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Go

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Fig 1. Hello World ctf completed