

## ***Limit overrun race conditions***

1. This lab's purchasing flow contains a race condition that enables you to purchase items for an unintended price.
2. While browsing the website, I found a 20% off promo code on the home page.
3. I want to buy a jacket, but its price is \$1337 and I have only \$50. I tried to apply the code more than once, but it is not possible.

```
HTTP/2 302 Found
Location: /cart?couponError=COUPON_ALREADY_APPLIED&coupon=PROMO20
X-Frame-Options: SAMEORIGIN
Content-Length: 22

Coupon already applied
```

4. I think to send the request that apply the code more than once in parallel. It works and the code is applied more than once. Now, I can buy it.

When the code applied once:

Code	Reduction
PROMO20	-\$267.40
Total: \$1069.60	

When the code applied more than once:

Code	Reduction
PROMO20	-\$1312.93
Total: \$24.07	



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LAB Solved

Congratulations, you solved the lab!

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For 20% off use code at checkout: PROMO20

Store credit:  
\$25.93

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Your order is on its way!

Name	Price	Quantity
Lightweight "I33I" Leather Jacket	\$1337.00	1

Total: \$24.07