

Incomplete Mediation - The Shopping Cart Attack

order=(#2956,10,9,90)





Server Trusted
Domain

Client Trusted Domain

amazon.com

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Earn **\$50 Cash Back** after your first card purchase,
And get **5% Cash Back** in bonus categories with Chase Freedom®.

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[See more items like these in your cart](#)subtotal = **\$5.49**[Make any changes below?](#) [Update](#)

Shopping Cart Items—To Buy Now

Price:

Qty:

Item added on
November 20,
2009

[Live Free or Die Hard \(Unrated Edition\) - Bruce Willis, DVD](#)

Condition: New

Includes Video On Demand 24 hour
rental as a gift with purchase

[Live Free or Die](#)

In Stock

[Details](#)

Eligible for FREE Super Saver Shipping

\$5.49

You Save:
\$9.49 (63%)

Express Checkout with PayPal

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**[Live Free or Die
Hard \(Unrated
Edition\) DVD - Bruce
Willis](#)**

*Notice that Annaz is not able to do this attack

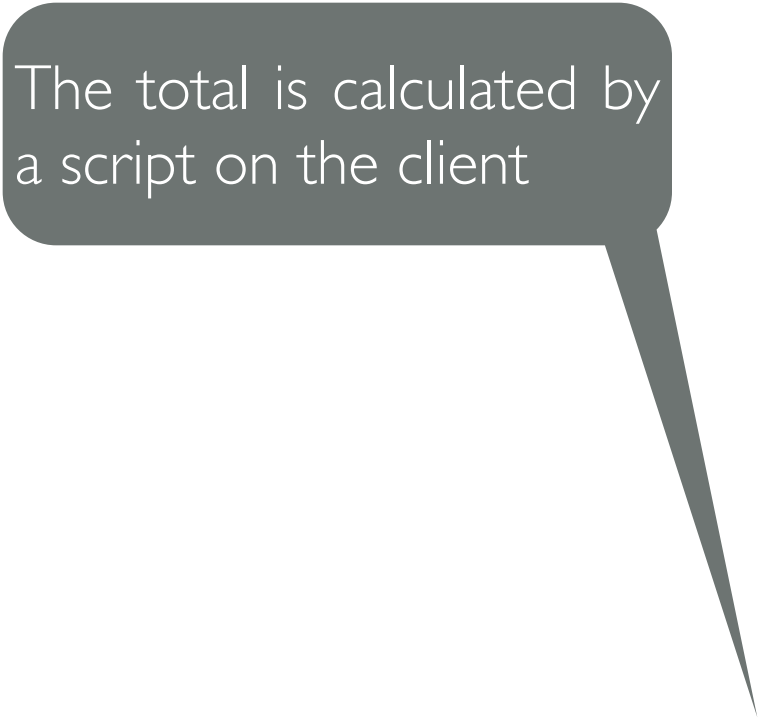


Thank you for your order!



amazon.com

The Amazon logo, featuring a curved orange arrow pointing from the letter 'a' to the letter 'z'.



The total is calculated by
a script on the client

The order is generated
based on the request

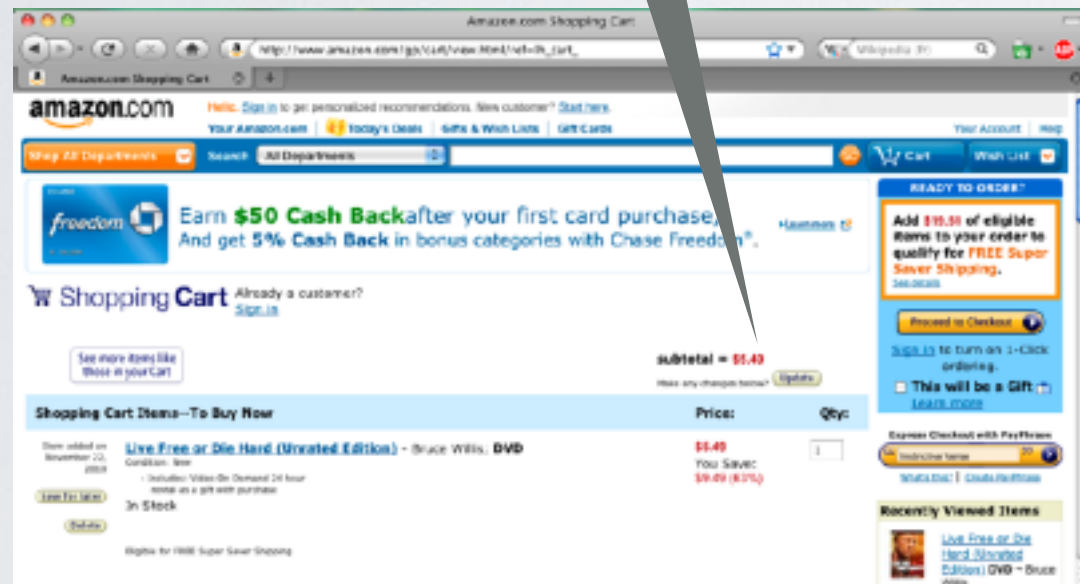
1

10

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The total is calculated by a script on the client

The order is generated based on the request



Client Trusted Domain

*

order=(#2956, 10, 1, 10)

Thank you for your order!

amazon.com



Server Trusted Domain

* Notice that Amazon is **not** vulnerable to this attack

The backend is the **only trusted domain**

- Data coming from the frontend cannot be trusted
- ✓ Sensitive operations must be done on the backend