



# Backend Code challenge

## Senior Backend Engineer

### Candidate Take Home Test

Have you shopped online? Let's imagine that you need to build the checkout backend service that will support different promotions with the given inventory.

Build a checkout system with these items:

SKU	Name	Price	Inventory Qty	Column
<u>120P90</u>	Google Home	\$49.99	10	
<u>43N23P</u>	MacBook Pro	\$5,399.99	5	
<u>A304SD</u>	Alexa Speaker	\$109.50	10	
<u>234234</u>	Raspberry Pi B	\$30.00	2	

**The system should have the following promotions:**

- Each sale of a MacBook Pro comes with a free Raspberry Pi B
- Buy 3 Google Homes for the price of 2
- Buying more than 3 Alexa Speakers will have a 10% discount on all Alexa speakers

**Example Scenarios:**

Scanned Items: MacBook Pro, Raspberry Pi B

Total: \$5,399.99

Scanned Items: Google Home, Google Home, Google Home

Total: \$99.98

Scanned Items: Alexa Speaker, Alexa Speaker, Alexa Speaker

Total: \$295.65

Please write it in Golang or Node with a CI script that runs tests and produces a binary.

Finally, imagine that adding items to cart and checking out was a backend API.

Thank you for your time and we look forward to reviewing your solution. If you have any questions, please feel free to contact us. Please send us a link to your git repo.