

BCG Digital Ventures - Backend Coding Challenge

Your task

We would like you to build a simplified e-commerce API with a single endpoint that performs a checkout action. The single endpoint should take a list of watches and return the total cost. In terms of programming languages, please use Kotlin or Java.

Watch catalogue

Below is a catalogue of four watches and their associated prices:

Watch ID	Watch Name	Unit Price	Discount
001	Rolex	100	3 for 200
002	Michael Kors	80	2 for 120
003	Swatch	50	
004	Casio	30	

There are a few requirements worth noting here:

- The first two products have a possible discount. As an example, if the user attempts to check out three or six Rolex watches then they will receive the discount price once or twice, respectively.
- There is no limit to the number of items or combinations of watches a user can checkout.
- There is no limit to the number of times a discount can be used.
- Similarly, a user can checkout a single item if they wish.
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Endpoint reference

As a further guideline here's an endpoint definition that you can use to design your API endpoint.

Request

POST `http://localhost:8080/checkout`

Headers

Accept: `application/json`

Content-Type: `application/json`

Body

```
[  
  "001",  
  "002",  
  "001",  
  "004",  
  "003"  
]
```

Response

Headers

Content-Type: application/json

Body

```
{ "price": 360 }
```

Thank you for reading and thanks for taking part in our interview process. We look forward to receiving your solution!

- The Engineering Team at BCG Digital Ventures