

kogan.com Coding Challenge

Hello Ben,

Thanks for the update, appreciate your honesty. I've recreated a new challenge for you to show us your coding skills!

Before you begin

- You have **1 day, 6 hours** remaining to submit your solution.
- The suggested time to complete a solution is 60 minutes.
- It can be written as a **command line application, web page, or mobile app** in the programming language(s) of your choice and should handle large input efficiently.

Challenge Description

Using the provided (paginated) API, find the **average cubic weight** for all products in the **"Air Conditioners"** category.

Cubic weight is calculated by multiplying the length, height and width of the parcel. The result is then multiplied by the industry standard cubic weight conversion factor of 250.

API Endpoint

```
http://wp8m3he1wt.s3-website-ap-southeast-2.amazonaws.com/api/products/1
```

Cubic Weight Example

A parcel measuring 40cm long (0.4m) x 20cm high (0.2m) x 30cm wide (0.3m) is equal to 0.024 cubic metres.

Multiplied by the conversion factor of 250 gives a cubic weight of 6kg.

$$0.4\text{m} \times 0.2\text{m} \times 0.3\text{m} = 0.024\text{m}^3$$
$$0.024\text{m}^3 \times 250 = 6\text{kg}$$

Assume that

- All dimensions are provided in centimetres.
- All weights are provided in grams.

Submission

- **You must submit setup instructions** with your solution, and specify language used eg: *Language: Javascript*
- Zip/tarball up your whole challenge working directory with your source code and any other files you feel are necessary.
- Reply to dev.jobs@kogan.com with a link to your source code (eg via Dropbox/Google Drive/Github/etc) by Wed, 30 May 2018 23:59:59 +1000.

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