

Exercise Solution

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Exercise summary

Coffee bag sizes:

- 200g
- 400g
- 1000g

Cubic box size: all edges must be equally long and edge length should be between 30cm – 100cm.

We have to calculate the minimum number of cubic boxes that are needed to fit all the bags based on number of ordered coffee bags with different sizes and provided cubic box size.

Solution statement

Used technology:

- HTML5
- CSS3
- JavaScript

GitHub repository link: <https://github.com/ArifTheCoder/shippingBoxCalculator>

Landing page link: <https://arifthecoder.github.io/shippingBoxCalculator/>

The main and only page contains four input fields. Three fields for three different bag sizes and one field for cubic box size as all edges of cubic box are equally long.

I assumed that the number of ordered coffee bags are always positive integer value. And the cubic box edge length should be between 30cm -100cm (integer value). The programme shows error message whenever those conditions break.

Mixture input values:

Amount of bages

Bag size 200g:

Bag size 400g:

Bag size 1000g:

Cubic box size

Cubic box edge length:

Calculate Boxes

Invalid input! Please enter a positive integer value in all fields.

Negative integer value:

Amount of bages

Bage size 200g:

Bage size 400g:

Bage size 1000g:

Cubic box size

Cubic box edge length:

Calculate Boxes

Invalid input! Please enter a positive integer value in all fields.

Out of rang cubic box edge length:

Amount of bages

Bage size 200g:

Bage size 400g:

Bage size 1000g:

Cubic box size

Cubic box edge length:

Edge length should be between 30cm - 100cm

Calculate Boxes

All are valid:

Amount of bages

Bage size 200g:

Bage size 400g:

Bage size 1000g:

Cubic box size

Cubic box edge length:

Total boxes need: 2

Calculate Boxes

I assumed that required cubic box number would be always integer value. Because it does not make any sense when we say, we need 2.2 cubic boxes to fit all the coffee bags. In this case we can assume that we need 3 cubic boxes.

