Thanks for your interest in joining our team!

We have designed the following challenge to test your problem-solving and coding skills. It is not as simple as it initially sounds, so take extra care when designing and testing your solution.

Stickee Developer challenge

Wally's Widget Company is a widget wholesaler. They sell widgets in a variety of pack sizes:

- 250 widgets
- 500 widgets
- 1,000 widgets
- 2,000 widgets
- 5,000 widgets

Their customers can order any number of widgets, but they will always be given complete packs.

The company wants to be able to fulfil all orders according to the following rules:

1. Only whole packs can be sent. Packs cannot be broken open.

2. Within the constraints of Rule 1 above, send out no more widgets than necessary to fulfil the order.

3. Within the constraints of Rules 1 & 2 above, send out as few packs as possible to fulfil each order.

So, for example:

Number of Widgets ordered	Correct packs to send	Incorrect solution(s)
1	250 x 1	500 x 1 (too many widgets)
250	250 x 1	500 x 1 (too many widgets)
251	500 x 1	**250 x 2 (too many packs)** **Pay attention to this one – many people get this wrong!**
501	500 x 1 250 x 1	1,000 x 1 (too many widgets) 250 x 3 (too many packs)
12,001	5,000 x 2 2,000 x 1 250 x 1	5,000 x 3 (too many widgets)

Your task
Write a program that will tell Wally's Widgets what packs to send out, for any given order size.

Keep your program flexible, so that new pack sizes may be added, or existing pack sizes changed or discarded, at a later date with minimal adjustments to your program. Be sure to test that the rules still work as intended with a different a different pack configuration!

Use PHP, JavaScript, or an alternative solution of your choice suitable for deployment to an online browser-based tool.

We are mainly interested in your algorithmic problem solving and development approach, however strong demonstration of a framework such as Laravel and a web based user interface is appreciated if time allows.

Please send us your code (either on GitHub, or send us the files), and also deploy your solution to an online environment that we can access via the web.

Send your answers to us at stickee in Solihull. Include your name and a contact email address.