

Boxes

This is a **challenge** exercise. It is **not compulsory**, and may be completed **individually or with your lab partner**.

For this challenge, make a program called `boxes.c` which reads in a number and then draws that many square boxes inside each other using the character `#`.

For example:

```
How many boxes: 1
```

```
###  
# #  
###
```

```
How many boxes: 2
```

```
#####  
# #  
# ### #  
# # # #  
# ### #  
# #  
#####
```

```
How many boxes: 5
#####
#      #
# #####      #
# #      # #
# # #####      # #
# # #      # # #
# # # #####      # # #
# # # #      # # #
# # # # ####      # # #
# # # #      # # #
# # # #####      # # #
# # #      # #
# #####      #
#
#####
#####
```

To run some simple automated tests:

```
$ 1511 autotest boxes
```

To run Styl-o-matic:

```
$ 1511 stylomatic boxes.c
Looks good!
```

You'll get advice if you need to make changes to your code.

Submit your work with the *give* command, like so:

```
$ give cs1511 wk04_boxes
```

Or, if you are working from home, upload the relevant file(s) to the `wk04_boxes` activity on [Give Online](#).