

# 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](#).