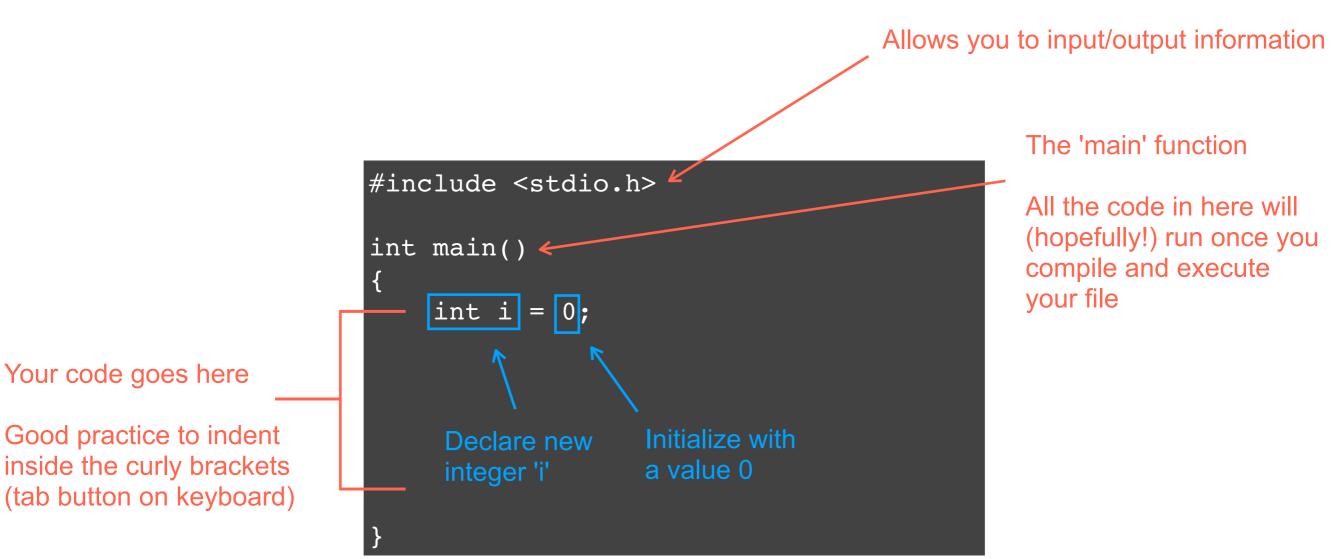
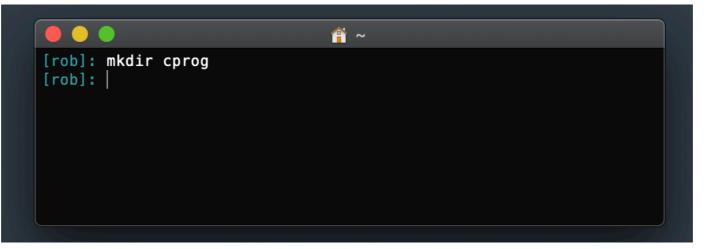
Basic structure of a C programme



Starting your programme

1) SSH on to one of the maths servers

2) Make a new directory with the **mkdir** command to save your assignments:





3) Move into this **directory** with the **cd** command:

• • •	🖿 ~/cprog	
[rob]: cd cprog/ [rob]:		
[[00]:		

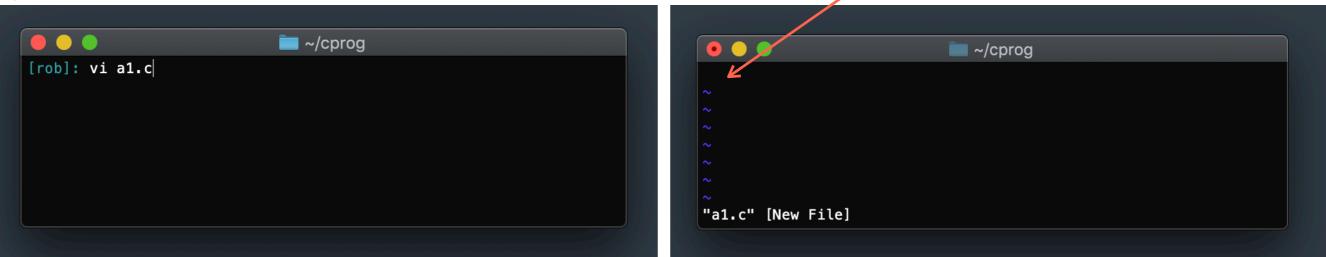
If you are unsure what directory you are in, you can print it out with the pwd command:



Starting your programme

4) Create a new C file with the vi command:

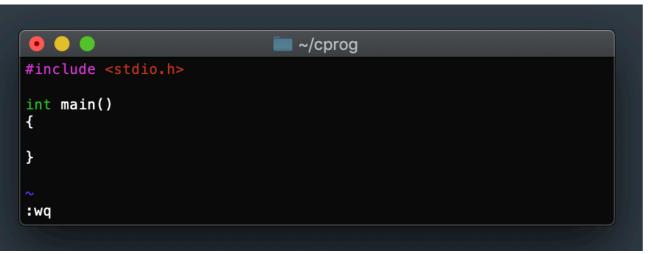
Your code goes here



5) To write to the file type i to enter **Insert mode**:



6) To save your work and exit the editor first hit **Escape**, then type **:wq** to hit **Enter**:



Note: you can also use a text editor of your choice on your local machine and then paste the code into a file on the maths server.

Compiling your code

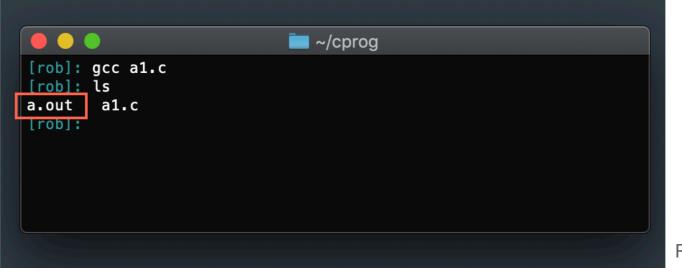
7) You can see a list of your files with the ls command

	🚞 ~/cprog	
[rob]: ls		
al.c		
[rob]:		

8) To **compile** your code use the **gcc** command



If this works you will see a file called **a.out** in your folder. This is called the **executable**. You can check this with the **ls** command:



Executing your code

9) To run your executable type the command ./a.out

	•	🖿 ~/cprog	
[rob]	./a.out		
		madam", to Eve said Adam	
		sir," to him said she	
		madam", to Eve said Adam	
"Good	morning,	sir," to him said she	
		madam", to Eve said Adam	
"Good	morning,	sir," to him said she	
"Good	morning,	madam", to Eve said Adam	
		sir," to him said she	

Refer to your notes if you are stuck!

Webpage:

```
www.maths.tcd.ie/~odunlain/u11601/
```

Mathematics course U11601 (C programming) Michaelmas 2020

Course slogan μηδεις 'ανυπολογιστος 'εντεστιν (Thanks to P. Karageorgis.)

C handbook and class notes

C programming handbook (last update 1/10/19)

Class notes

Assignments

First programming assignment

Data for programming assignments

submit-work: screenshots But replace 1266 by u11601 throughout. The *nix Command Line, by Fionn Fitzmaurice

Quiz answers, current term

May 2018 final exam WITH ANSWERS

April 2019 final exam