Exercise 1

Let's try use some of the things we learnt in the last section. If you get stuck at any point put your hand up and I'll come over to help.

Create a folder titled `sage_latex` on your computer. Download *this file* and save it in the folder which you just created.

1. Check that you can compile the file you just downloaded (`scarlet.tex`).
2. Extract the preamble from `scarlet.tex` and save it in its own separate file. You should name this separate file `preamble.tex`.
3. Use the `\include` command to insert `preamble.tex` into `scarlet.tex`. Ensure that you can still compile `scarlet.tex`.
4. Create a new folder called `parts`. Extract the parts from `scarlet.tex` and put them in their own separate files within the `parts` folder. Your folder structure should now look like the following:

```
sage_latex/
├── scarlet.tex
├── parts/
│   ├── part_1.tex
│   └── part_2.tex
└── preamble.tex
```

   Ensure that you can still compile `scarlet.tex` with this new folder structure.
5. Create a folder `fig/` within `sage_latex/`. Download a detective-related image (think pipes, magnifying glasses etc.) and save it in the new `fig/` folder.
6. Add the `fig/` folder to `graphicx`'s `graphicspath`.
7. Include your detective image on the book cover. Your call to `\includegraphics` should *not* reference the `fig/` folder.
8. If you get this far try setting up your own thesis template. If you're in the School of Maths, Stats & Physics consider using *the thesis template provided on the wiki*. Alternatively, take a look at other templates online; I'd also recommend having a look at the *classic thesis template*.