

Homework 5

Write a program which displays locks. Every line should be separated by 80 “-” characters, and displayed on two lines as shown:

```
-----  
unlocked: this part is      , but this part is not  
locked:      locked  
-----
```

Don't forget to use the “unlocked:” and “locked:” labels.

Hints:

- `open()`, `fgets()`, `ftell()`, `fcntl()`, `fdopen()`, `<filelock.c>`
- use three buffers: one to hold the string from `fgets()`, one to hold unlocked characters (or blanks), and one to hold locked characters (or blanks).
- use `<filelock.c>` to test your program
- Use the man pages to determine which `#includes` you'll need
- Use the first command line argument for the filename to be processed
- To compile `filelock`, you'll need to
 - use the `-I` option to specify where `stdio.h` is
 - put the `stdio.a` library on the compile line for linking
 - put `-DDEBUG_TEST` to get `main`
 - I suggest you put this sort of thing into a shell script!