Source

- Inode.c/Makefile (kernel source of romfs)
- Test.img (a romfs image, you can mount it to a dir with 'mount –o loop test.img xxx)
- Say test.img is mounted in t, 'find t' output
    - aa
    - bb
    - ft
    - fo
    - fo/aa

Practice 1

- Change romfs code to hide a file/dir with special name
- Test & result
  - insmod romfs hided_file_name="aa"
  - Mount –o loop test.img t
  - then ls t, ls t/fo, no "aa" and "fo/aa". found
  - ls t/aa, or ls fo/aa, no found
  - Without the code change, above two operations can find file 'aa'

Practice 2

- change the code of romfs to correctly read info of an 'encrypted' romfs

- Test & result
  - insmod romfs hided_file_name="bb"
  - Mount –o loop test.img t
  - Say bb's original content is 'bbbbbbb'
  - With the change, cat t/bb output 'cccccccc'

Practice 3

- change the code of romfs to add 'x' (execution) bit for a specific file
- Test & result
  - insmod romfs hided_file_name="bb"
  - Mount –o loop test.img t
  - Without code changes 'ls –l t', output is '-rw-r--r--'
  - With the change, output is '-rwxr-xr-x'