```
1  # http://www.cprogramming.com/tutorial/shared-libraries-linux-gcc.html
2  # http://tldp.org/HOWTO/Program-Library-HOWTO/shared-libraries.html
3  #
4  # gcc -fPIC -c hi.c
5  # gcc -shared -o libhi.so hi.o
6  # gcc -L/current/dir -Wl,option -Wall -o hello hello.c -lhi
7  #
8  # -L         - tells ld where to search libraries
9  # -Wl,option - pass option as an option to the linker (ld)
10 # -rpath=dir - Add a directory to the runtime library search path
11
12 hello: hello.c hello.h libhi.so
13         gcc -L. -Wl,-rpath=. -Wall -o hello hello.c -lhi
14 libhi.so: hi.o hello.h
15         gcc -shared -o libhi.so hi.o
16 hi.o: hi.c hello.h
17         gcc -fPIC -c hi.c
18 clean:
19         rm *.o *.so hello
```