```makefile
main: main.c lib.h libhi.so
        gcc -L. -Wl,-rpath=. -Wall -o main main.c -lhi
        # -L          - tells ld where to search libraries
        # -Wl,option - pass option as an option to the linker (ld)
        # -rpath=dir - Add a directory to the runtime library search path
libhi.so: hi.o hello.o
        gcc -shared -o libhi.so hi.o hello.o
hi.o: hi.c
        gcc -fPIC -c hi.c
hello.o: hello.c
        gcc -fPIC -c hello.c
clean:
        rm -f *.o *.so main
```