Static Libraries:

gcc -c ctest1.c -o ctest1.o

gcc -c ctest2.c -o ctest2.o

ar rcs libctest.a ctest1.o ctest2.o

gcc -c prog.c -o prog.o

gcc -o test1 prog.o -L. -lctest

./test1

Shared Libraries:

gcc -shared -fPIC -o libctest.so ctest1.c ctest2.c

gcc prog.c -L $PWD -lctest -o test2

export LD\_LIBRARY\_PATH=$PWD:$LD\_LIBRARY\_PATH

./test2