**Lab 5. Copying files（15 Marks）**

Implement a directory copy command “mycp”, it will copy the sub-directories and files under the directory to a new directory. **Implement a Windows version and a Linux version.** A running example as follows:

beta@bugs.com [~/]# ls –l sem

total 56

drwxr-xr-x 3 beta beta 4096 Dec 19 02:53 ./

drwxr-xr-x 8 beta beta 4096 Nov 27 08:49 ../

-rw-r--r-- 1 beta beta 128 Nov 27 09:31 Makefile

-rwxr-xr-x 1 beta beta 5705 Nov 27 08:50 consumer\*

-rw-r--r-- 1 beta beta 349 Nov 27 09:30 consumer.c

drwxr-xr-x 2 beta beta 4096 Dec 19 02:53 subdir/

beta@bugs.com [~/]# mycp sem target

beta@bugs.com [~/]# ls –l target

total 56

drwxr-xr-x 3 beta beta 4096 Dec 19 02:53 ./

drwxr-xr-x 8 beta beta 4096 Nov 27 08:49 ../

-rw-r--r-- 1 beta beta 128 Nov 27 09:31 Makefile

-rwxr-xr-x 1 beta beta 5705 Nov 27 08:50 consumer\*

-rw-r--r-- 1 beta beta 349 Nov 27 09:30 consumer.c

drwxr-xr-x 2 beta beta 4096 Dec 19 02:53 subdir/

Notes：

Linux: creat，read，write system calls

Windows: CreateFile(), ReadFile(), WriteFile(), CloseHandle() Windows APIs