**系統程式設計**

**Lab4 File Attributes**

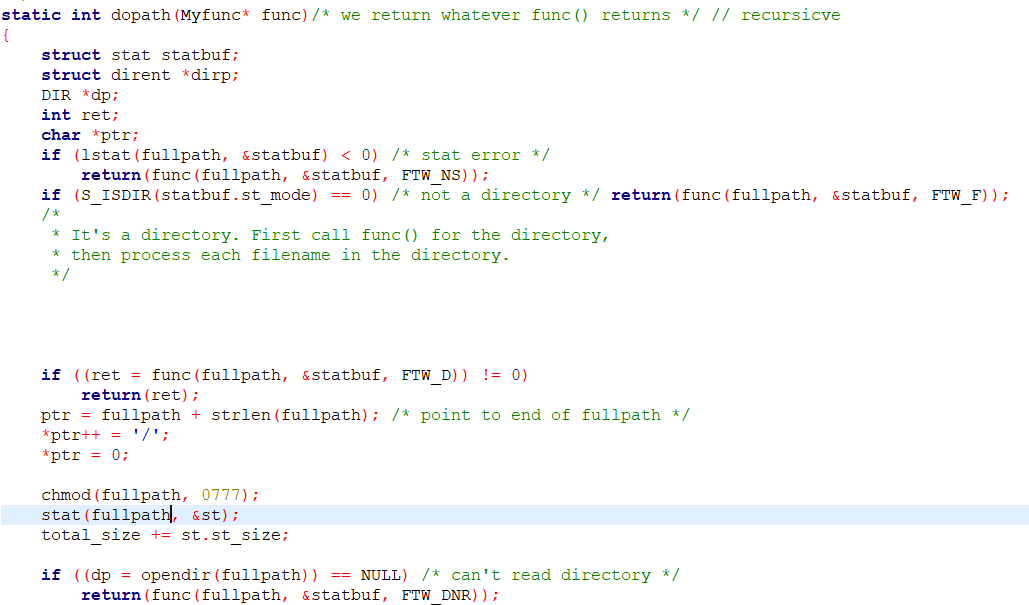
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1. **How do you modify fig4\_22.c?**

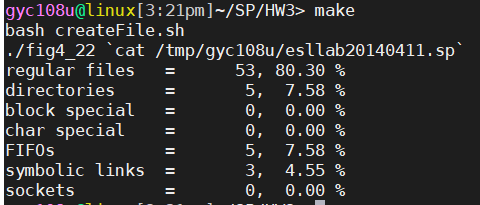
(1)在dopath中opendir前新增chmod(fullpath,0777)



1. **The count of the various types of files?**

**Ex: File type = Count, Percentage**

修改後檔案比例：

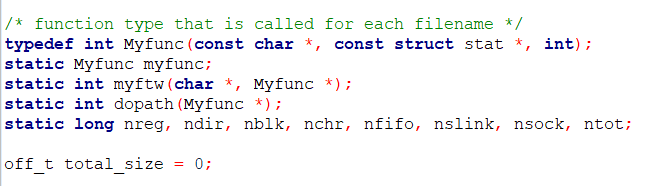


1. **The count of total files size?**

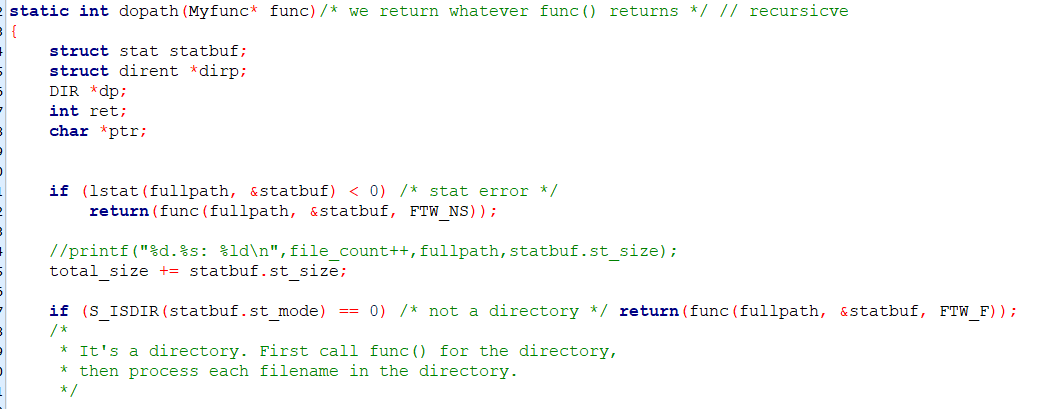
**Ex: Total size = Size**

1.修改部分如下：

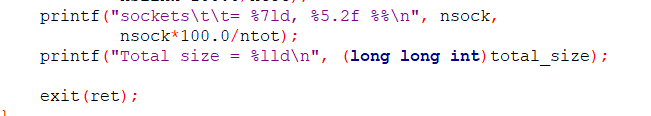
(1)宣告全域變數off\_t total\_size = 0;



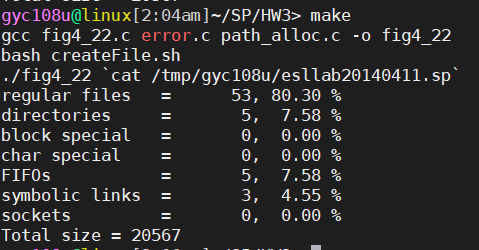
(2)在dopath中用statbuf.st\_size去計算size並加到total\_size中



(3)再轉型成long long int後印出



(4)結果 Total size = 20567



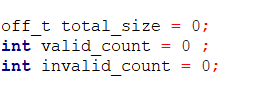
1. **(Bonus) The count of valid and invalid link?**

**Ex:**

**Valid link = Count 2**

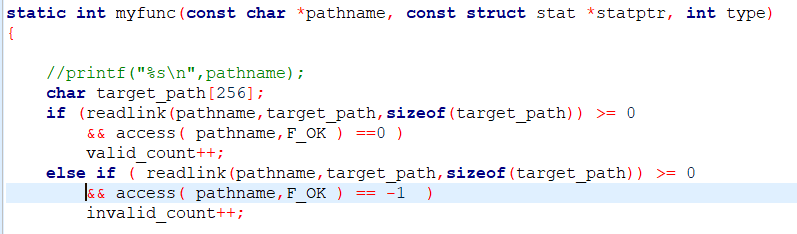
**Invalid link = Count 1**

**(1)新增全域變數 valid\_count和invalid\_count**

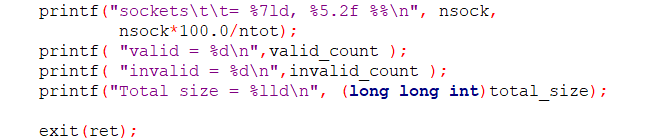


**(2)在myfunc增加用readlink去判斷symbolic link是否存在，若存在且可access則valid\_count++**

**若symbolic link存在，但不可access，則invalid\_count++**



**(3)printf結果**



**(4)執行結果**

