

```
cs4108033007@cs4108033007-VirtualBox:~$ ./ex2 / passwd
from path: /
scan file: passwd
/usr/bin/passwd
/usr/share/lintian/overrides/passwd
/usr/share/bash-completion/completions/passwd
/etc/passwd
/etc/cron.daily/passwd
/etc/pam.d/passwd
/snap/core20/1405/etc/pam.d/passwd
/snap/core20/1405/etc/passwd
/snap/core20/1405/usr/bin/passwd
/snap/core20/1405/usr/share/bash-completion/completions/passwd
/snap/core20/1405/usr/share/lintian/overrides/passwd
/snap/core20/1405/var/lib/extrausers/passwd
/snap/core20/1434/etc/pam.d/passwd
/snap/core20/1434/etc/passwd
/snap/core20/1434/usr/bin/passwd
/snap/core20/1434/usr/share/bash-completion/completions/passwd
/snap/core20/1434/usr/share/lintian/overrides/passwd
/snap/core20/1434/var/lib/extrausers/passwd
/snap/core18/2344/etc/pam.d/passwd
/snap/core18/2344/etc/passwd
/snap/core18/2344/usr/bin/passwd
/snap/core18/2344/usr/share/bash-completion/completions/passwd
/snap/core18/2344/usr/share/lintian/overrides/passwd
/snap/core18/2344/var/lib/extrausers/passwd
/snap/core18/2409/etc/pam.d/passwd
/snap/core18/2409/etc/passwd
```

```

11 void GetSpecifiedFile(const char *path, char *name)
12 {
13
14     DIR *pDir;
15     struct dirent* pEntry = NULL;
16     char nextPath[512];
17
18     if (!(pDir = opendir(path)))
19         return;
20
21     while ((pEntry = readdir(pDir)) != NULL)
22     {
23         if ((strcmp(pEntry->d_name, ".") == 0) || (strcmp(pEntry->d_name, "..") == 0))
24             continue;
25
26         if (pEntry->d_type == DT_REG)
27         {
28             if (strncmp(pEntry->d_name, name, sizeof(name)) == 0)
29             {
30                 g_find = true;
31                 printf("%s/%s\n", path, pEntry->d_name);
32             }
33         }
34         else if (pEntry->d_type == DT_DIR)
35         {
36             if (strlen(path) < 2)
37             {
38                 sprintf(nextPath, "%s", pEntry->d_name);
39             }
40             else
41                 sprintf(nextPath, "%s/%s", path, pEntry->d_name);
42
43             GetSpecifiedFile(nextPath, name);
44         }
45     }
46
47     closedir(pDir);
48 }

```

將路徑、檔案名稱傳入 GetSpecifiedFile

如果是檔案則會比對是否是目標檔案

再來如果是目標檔案則印出路徑

如果是資料夾則會先拼湊成新的路徑

再傳入 GetSpecifiedFile 遞迴搜尋