

# 文字檔

**FILE** \_\_\_\_\_ // 宣告 file pointers

開啓  
檔案

```
fp = fopen ("abc.txt", _____); // read  
fp2 = fopen ("xyz.txt", _____); // write
```

// 只要未到檔案末

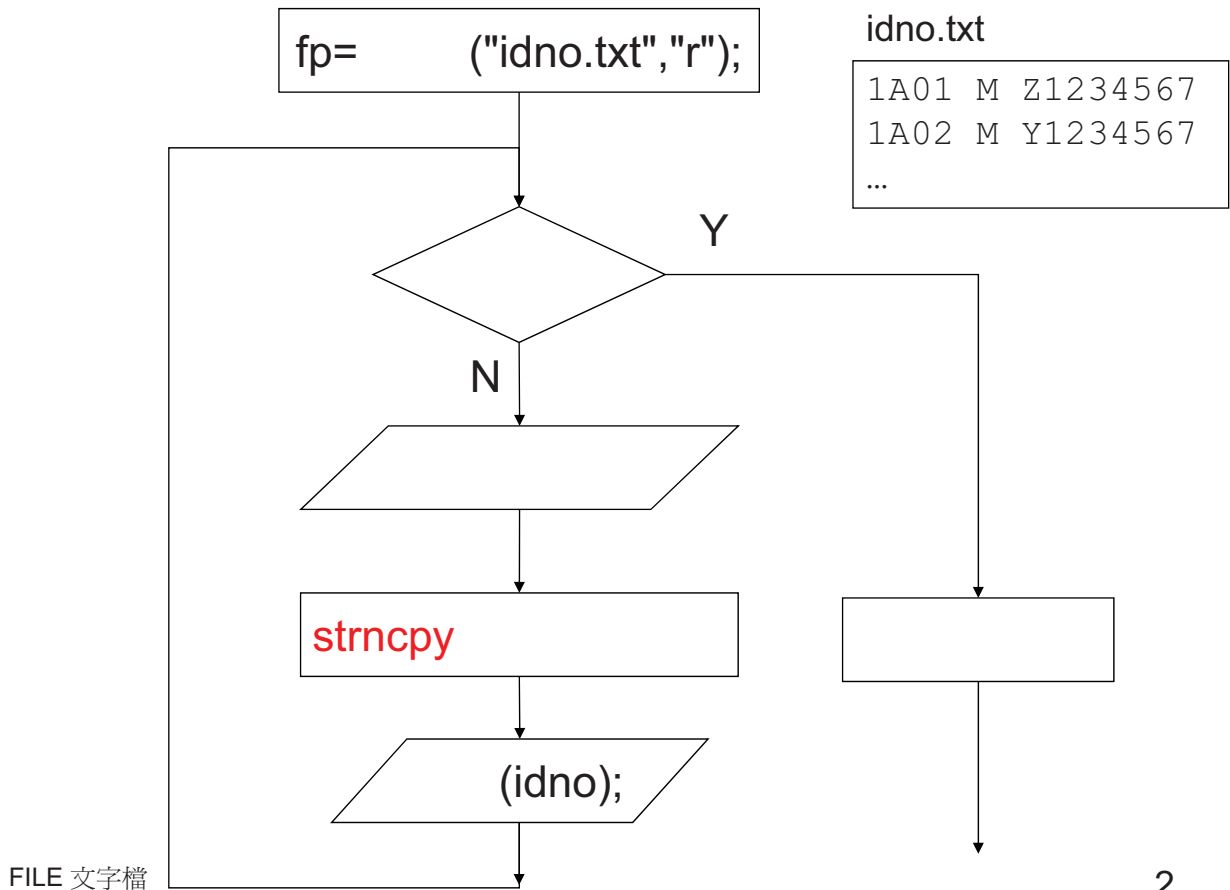
```
while (! _____(fp)){ // not end of file  
    _____ (s, 20, _____); // 讀入一行  
    printf ("%s", s);  
    _____ (_____, "%s", s); // 寫入  
}
```

關閉  
檔案

```
_____ (____);  
fclose (fp2);
```

FILE 文字檔

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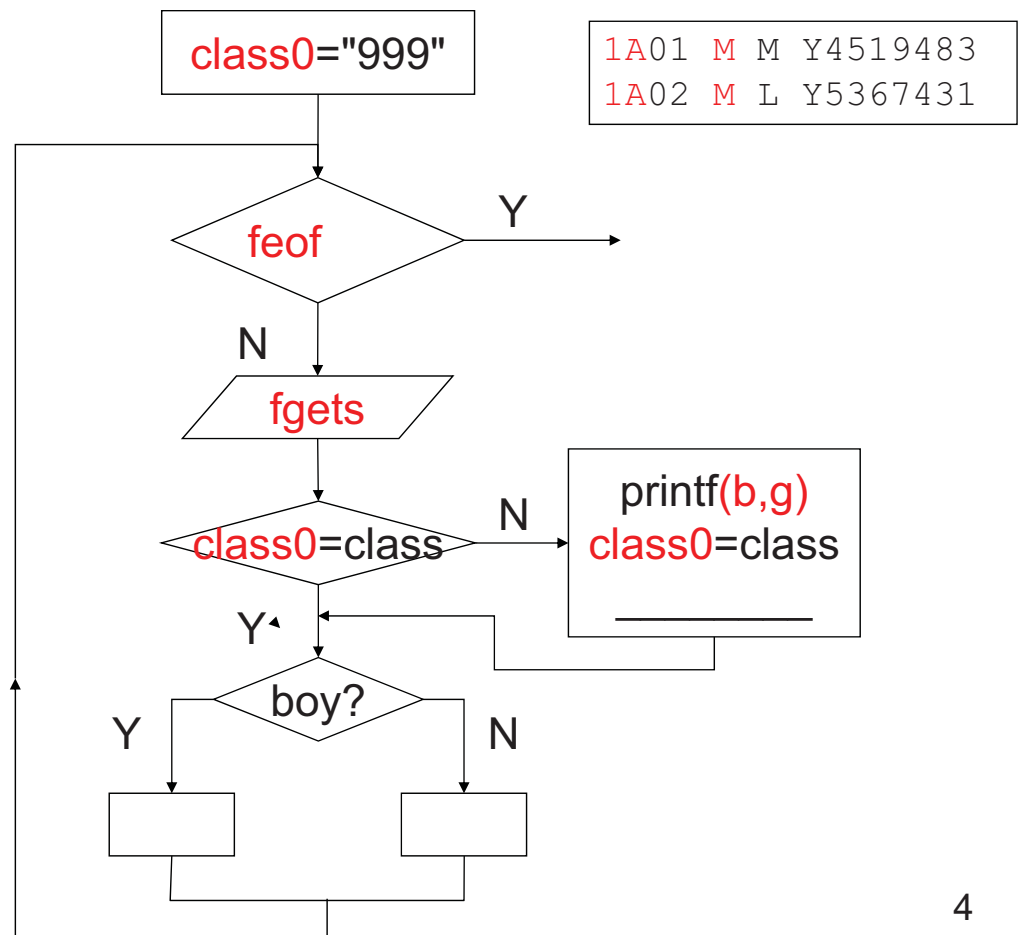
# 文字檔

## 輸出/寫入

```
_____ (fp, "%s", s);  
fputs (s, fp);
```

## 輸入/讀取

```
_____ (s, 20, fp); // 最多20char  
fscanf (fp, "%s", s);  
  
_____ (fp, "%i", &n); // 只限數字
```



```
FILE *fp;
char s[100];
char class[3], class0[3]="1A";
```

1A01	M	M	Y4519483	10/11/2000
1A02	M	L	Y5367431	05/05/2000

男女人數統計

```
fp = fopen("students08-09.txt", "r");
while (! feof(fp)){
    fgets(s,100,fp); s[strlen(s)-1] = '\0';
    _____ class[2] = '\0';

    if(_____!=0){
        printf ("_____ \n",
                class0, boys, girls);
        strcpy(_____);
        boys=girls=_____;
    }
    if(_____=='M') _____ else _____;
}
fclose (fp);
```

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```
FILE *fp;
char s[100], month[3];
int mm, count[13]={0};
```

1A01	M	M	Y4519483	10/11/2000
1A02	M	L	Y5367431	05/05/2000

出生月份人數統計

```
fp = fopen("students.txt", "r");
while (! feof(fp)){
    _____ s[strlen(s)-1] = '\0';
    strncpy(_____);
    mm = _____;
    count[_____]++;
}
fclose (fp);
```

```
for (_____ = 1; _____; _____++)
    printf ("%2i月: %i人 \n", count[_____]);
```

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## 倉頡碼(1)

```
FILE *fp;  
int i=0;  
char s[20], w[3], cj[6];
```

	w	cj
s= 4E00	一	M
4E01	丁	MN
4E03	七	JU

```
fp = fopen("cj5000.txt","r");  
while (!feof (fp)){  
    fgets (s,20,fp);  s[strlen(s)-1]='\0';  
  
    strncpy (______);  w[2]='\0';  
    strncpy (______);  cj[5]='\0';  
  
    printf ("%s %s\n", ____, ____);  
    i++;  
}  
fclose(fp);
```

FILE 文字檔

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## 倉頡碼(2)

```
#define MAX 10000  
FILE *fp;  
int i=0;  
char s[20], cj[____][6], w[____][3];
```

	w[i]	cj[i]
s= 4E00	一	M
4E01	丁	MN

```
fp = fopen("cj5000.txt","r");  
while (!feof (fp) && i<MAX){  
    fgets (s,20,fp);  s[strlen(s)-1]='\0';  
  
    strncpy (______);  w[i][2]='\0';  
    strncpy (______);  cj[i][5]='\0';  
  
    printf ("%s %s\n", ____, ____);  
    i++;  
}  
fclose(fp);
```

FILE 文字檔

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### 倉頡(3) 拆碼練習

```
do{ // 隨機選字
    n = rand(____);           "字"  "JND"
    printf("%05i: %s [%s] ", n, _____, _____);

    gets(_____);          輸入"jnd"
    for(i=0;i<_____(guess);i++)
        guess[i] = toupper(_____);  轉為"JND"

    if(strcmp(_____, _____)==0)  比較
        printf("Correct\n");         文字
    else
        printf("Incorrect\n");

}while(1);
```

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FILE 文字檔

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## ATM / stock

```
FILE *fp;
int i=0, amt, qty, sum=0;
char type; // in & out
```

type amt qty

i	500	4
o	100	10
...		

```
fp = fopen("transactions.txt","r");
while (!feof (fp)){
    fscanf (fp, "%c %i %i \n",
            &_____, &_____, &_____);
    if (type=='i') sum += _____;
    else sum _____ amt*qty;
    printf ("%c %i\n", type, _____);
    i++;
}
printf ("sum = %i\n", sum);
fclose(fp);
```

讀入資料

加減數量

列印資料

列印總數

FILE 文字檔

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## fseek (1)

```
char s[100], c;
fp = fopen ("temp.txt","r+");
```

```
while (!feof(fp)){
```

```
    printf ("%i \n", _____(fp)); // 指標位置
```

```
    fgets (s,100,fp);
```

```
    if (feof(fp)) break;
```

```
    printf ("%s", s);
```

```
}
```

```
rewind (fp);
```

```
// 返回0
```

```
...
```

```
fclose (fp);
```

```
fgets (s,100,fp);
```

```
fseek(fp,-12,1);
```

```
fprintf(fp,"%s",x);
```

```
// 返回
```

```
// 覆寫
```

temp.txt

p →	1234567890
→	abcdefghij
	1234567890
	abcdefghij
	...

FILE 文字檔

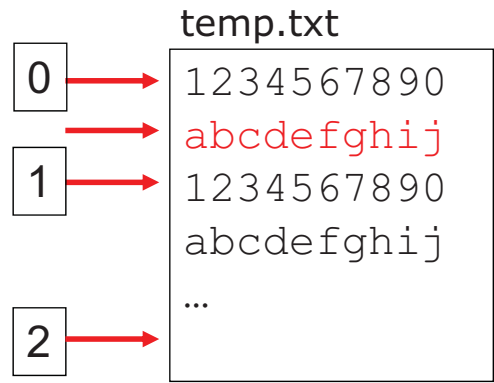
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## fseek (2)

```
fp = fopen ("temp.txt","r+");  
fgets (s,100,fp);
```

跳n個  
字元

開始  
位置



```
fseek(fp, 0,0); // 由____開始,跳0字元  
fseek(fp, 12,1); // 由目前位置開始,跳 12字元  
fseek(fp,-12,1); // 由目前位置開始,跳-12字元  
fseek(fp, 0,2); // 從____開始,跳0字元  
  
fseek(fp,___n,0); // 第n個記錄
```

**ftell(fp)**  
目前位置

employee.txt

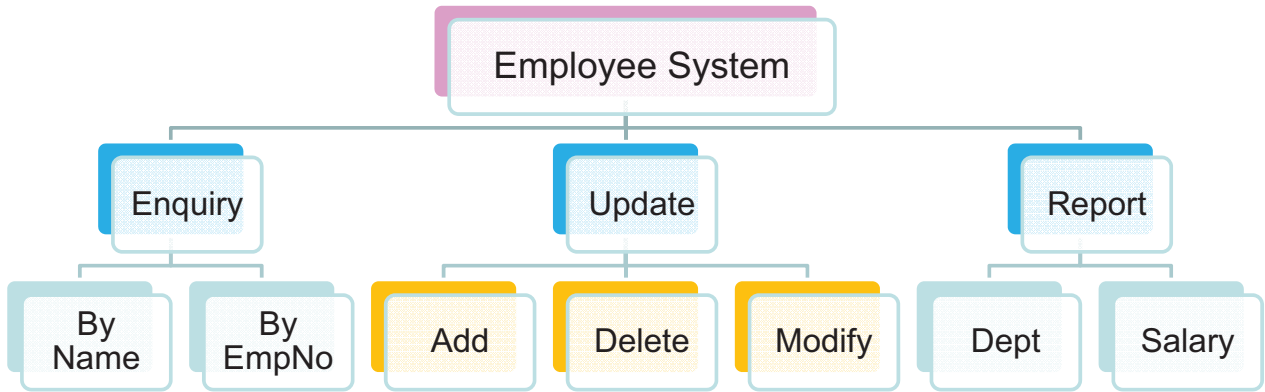
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↔ \r\n

0→	CHENG CHUN CHING	15	12000.0
36→	FUNG CHIT YU	16	5000.0
72→	NG CARRIE	15	9000.0
108→	CHAU CHI HENG	16	13000.0
144→	YIM SHUK WAI	16	9000.0
	WONG WAI	15	10000.0
	CHAU CHEE YING	15	12000.0
	AU KAI YAN	15	6000.0
	CHEUNG CHI SHING	17	7000.0

```
1 fseek(fp,144,0); // 頭  
2 fseek(fp,-36,1); // 現時  
3 fseek(fp,0,2); // 尾
```

## 結構圖 Structure Chart



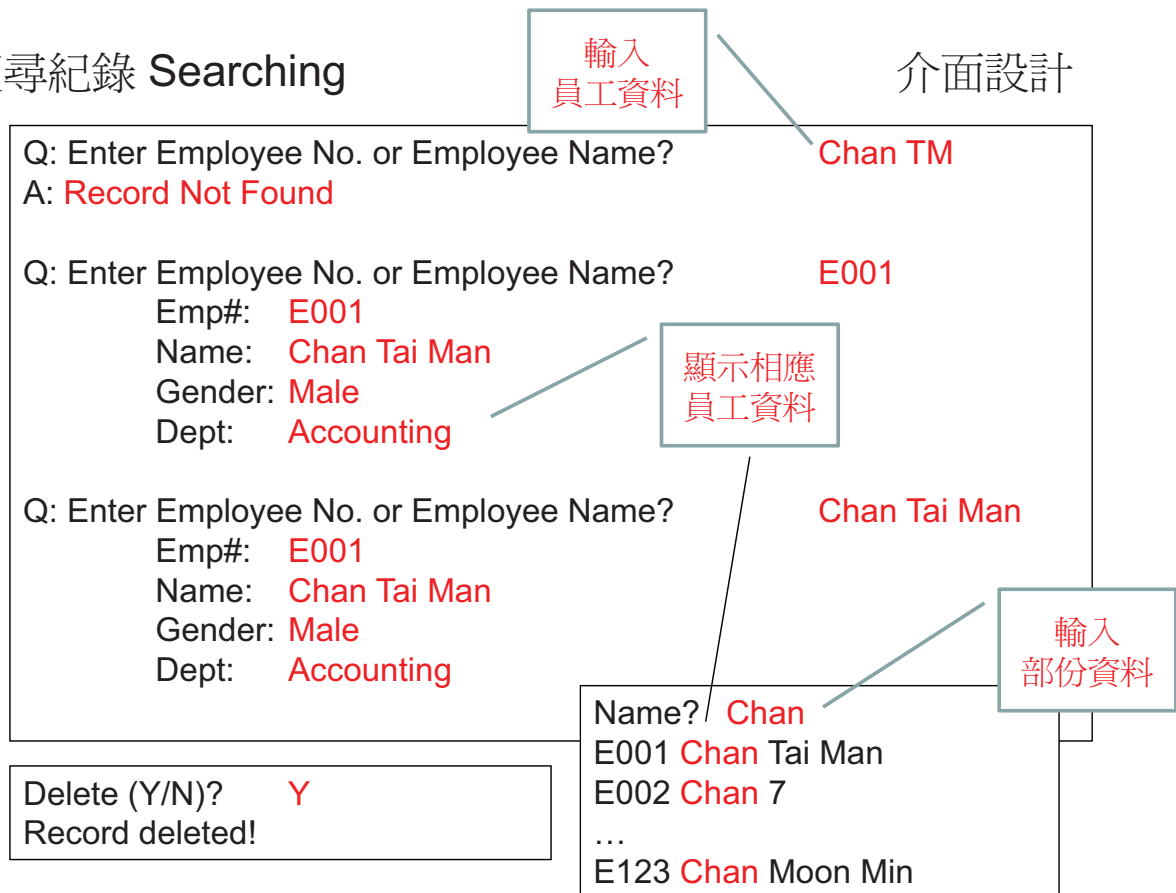
文字檔：employee.txt

EmpNo	Dept	Gender	Salary	YOB	Entry	Emp. Name
E001	F	M	19000	1985	1989	CHAN SIU CHUN
E002	F	M	15000	1989	1989	CHEUNG CHUN KIT
:						
E036	B	F	10000	1986	2001	YEUNG LOK YI

Employee

1

## 搜尋紀錄 Searching



Employee

2



# 新增紀錄 Add New Record

下一個  
編號

介面設計

Employee#:	E037
Name:	Chan Tai Man ↵
Gender (M/F):	M
Dept (A-F):	A
Salary (K):	12
Year of Birth:	1992
Confirm(Y/N)?	Y
Record E037 Saved!	

輸入  
員工資料

確認  
新增

Employee#:	E038
Name:	↵

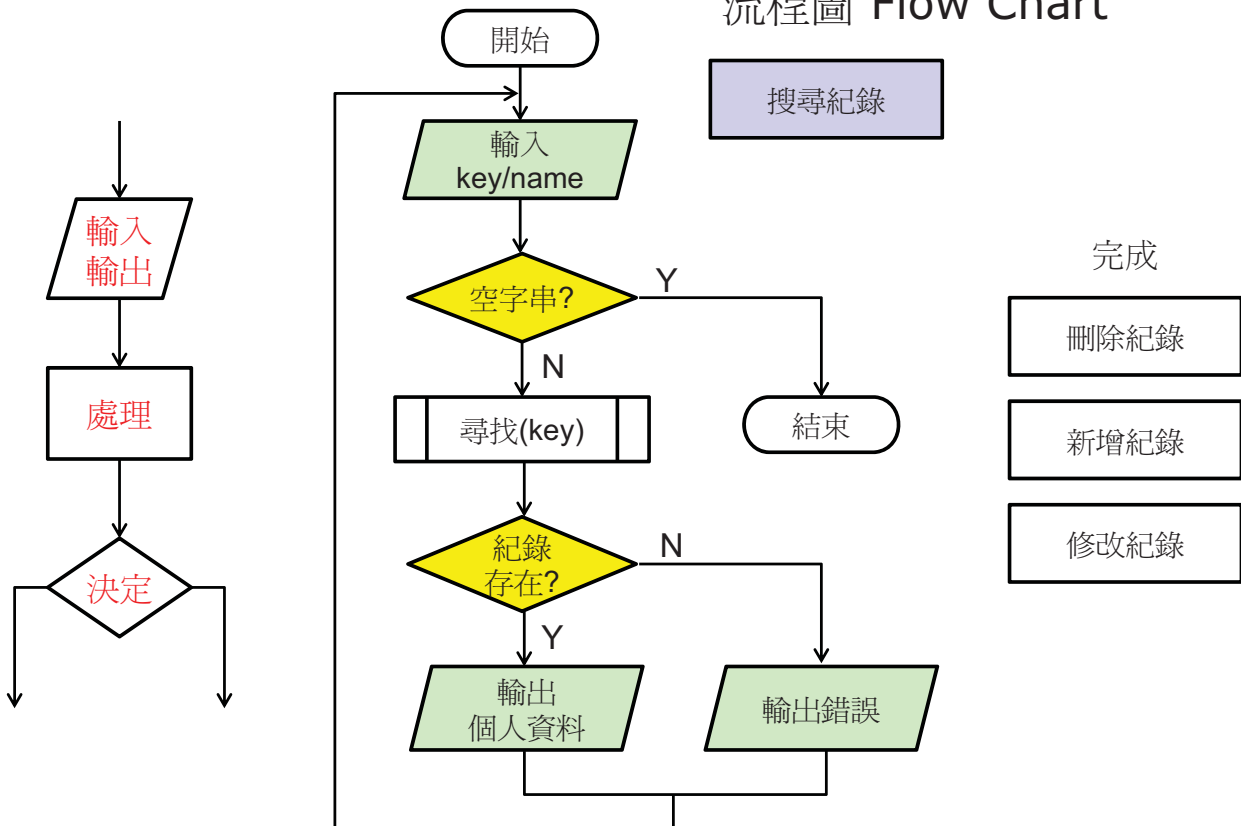
# 修改紀錄 Modify Record

(1)搜尋, (2)輸出舊紀錄, (3)修改, (4)儲存

Employee

3

# 流程圖 Flow Chart



Employee

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