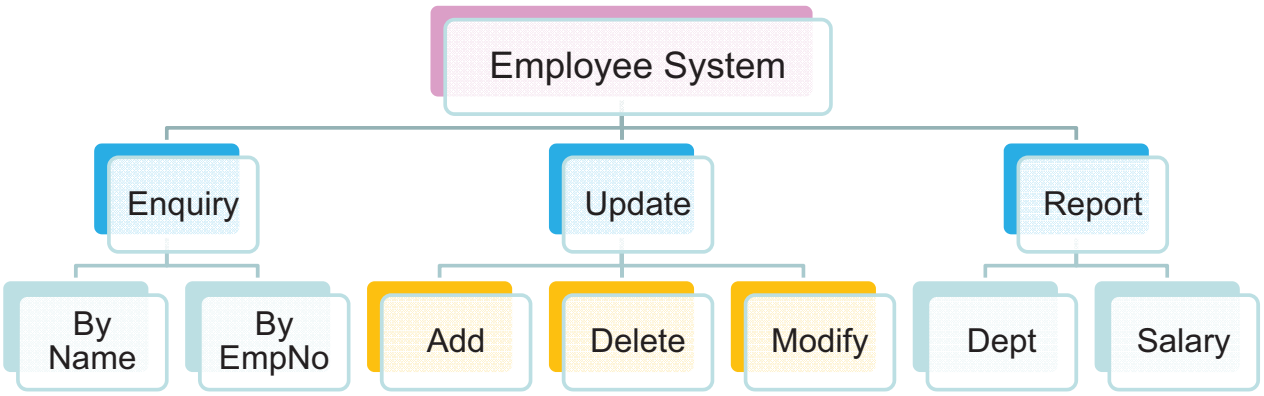
結構圖 Structure Chart



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

搜尋紀錄 Searching

介面設計

輸入
員工資料

Q: Enter Employee No. or Employee Name? Chan TM
A: Record Not Found

Q: Enter Employee No. or Employee Name? E001
Emp#: E001
Name: Chan Tai Man
Gender: Male
Dept: Accounting

顯示相應
員工資料

Q: Enter Employee No. or Employee Name? Chan Tai Man
Emp#: E001
Name: Chan Tai Man
Gender: Male
Dept: Accounting

輸入
部份資料

Name? Chan
E001 Chan Tai Man
E002 Chan 7
…
E123 Chan Moon Min

Delete (Y/N)? Y
Record deleted!

Employee

新增紀錄 Add New Record

介面設計

下一個編號

```
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

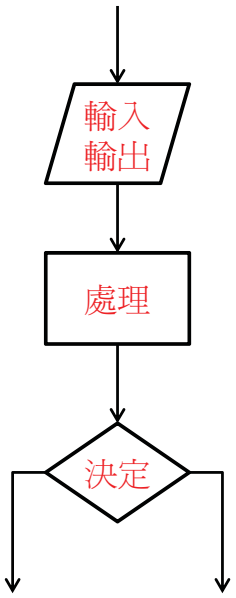
確認新增

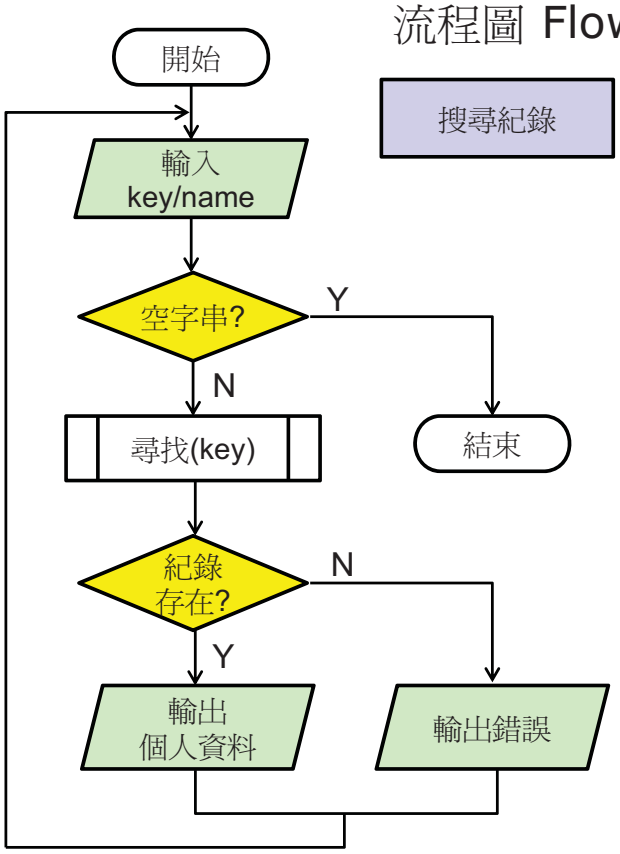
```
Employee#:      E038
        Name:           ↵
```

修改紀錄 Modify Record

(1)搜尋, (2)輸出舊紀錄, (3)修改, (4)儲存

流程圖 Flow Chart





搜尋紀錄

完成

- 刪除紀錄
- 新增紀錄
- 修改紀錄

Employee System: Function / Sub-routine Call & Return

```
#include <stdio.h>
FILE *fp;
int max=0;
```

```
void searchFor(char t[ ], int n){
    printf("8\n");
}
```

```
void enquiryByName(){
    char key[30];
    do{
        printf("6 Emp Name?    "); gets(key);
        if(strlen(key)==0) break;
        n = searchFor(key,1);
    }while(1);
    printf("6x\n");
}
```

```
void enquiryByNum(){
    char key[30];
    do{
        printf("7 Emp Number?    "); gets(key);
        if(strlen(key)==0) break;
        n = searchFor(key,2);
    }while(1);
    printf("7x\n");
}
```

```
void main_menu(){
    char opt='Q';
    do{
        printf("3 option?    ");
        opt = toupper(getche());
        if(opt=='Q') break;
        switch(opt){
            case '1' : menu_enquiry(); break;
            case '2' : menu_update(); break;
        }
    }while(1);
    printf("3x\n");
}
```

```
void menu_enquiry(){
    char opt='Q';
    do{
        printf("4 option?    ");
        opt = toupper(getche());
        if(opt=='Q') break;
        switch(opt){
            case 'N' : enquiryByName(); break;
            case 'R' : enquiryByNum(); break;
        }
    }while(1);
    printf("4x\n");
}
```

```
main(){
    printf("1\n");
    main_menu();
    printf("2\n");
}
```

```
void menu_update(){
    do{
        printf("5 option?    \n");
    }while(1);
    printf("5x\n");
}
```

1 3

2

```
main
    menu_enquiry
        enquiryByName
        enquiryByNum
    menu_update
    …
```

```
123456789-123456789-123456789-123456789-123456789-12345
E001 A M 20000 1993 2002 Chan Tai Man

void rtrim(char s[]) {
        int n=___
        while(n______ && _________) n--;
        s[_______]='\0';
}

int __(__, __){ //  search by name(n=1), by emp#(n=2)
        int found=0,salary,yob,yoe;     // year of birth/entry
        char s[100],name[30],tmp[10],empno[10];
        ___________(fp);
        fgets(s,100,fp);
        while(_____________________&&   found_______) {
                fgets(s,100,fp);        s[strlen(s)-1]='\0';
                if(____________________) break;

                __________empno___________; empno[___]='\0';

                __________name____________; rtrim(name);
                switch(n){
                case 1: if(________t,name________) found=__; break;

                case 2: if(________t,empno_______) found=__; break;
                }
        }
        if(  found  ){
                salary = atoi(____);
                yob = __
                yoe = __
                printf("\tEmp#:\t___\n\tName:\t___\n\tGender:\t___\n",
                        empno,name,s[__]);
                printf("\tBirth:\t___\n\tEntry:\t___\n\tSalary:\t___\n",
                        yob,yoe,salary);
                return _________________;
        }else{
                printf("\t___ not found!\n", t);
                return _________________;
        }
}
void enquiryByName(){
        char name[30];
        do{
                printf("enter employee name: "); gets(name);
                if(________(name)==0) break;
                n=searchFor(________,1);
        }while(1);
}
void enquiryByNum(){
        char empno[10];
        do{
                printf("enter employee number: "); gets(empno);
                if(________(empno)==0) break;
                n=searchFor(________,2);
        }while(1);
}
```