#include<stdio.h>

#include<stdlib.h>

struct Josephe {

int ID;

int password;

struct Josephe \*next;

};

int sum = 1;

struct Josephe \*creat(){

struct Josephe \*New,\*End,\*Head;

New = End = (struct Josephe \*)malloc(sizeof(struct Josephe));

printf("Please input NO.%d date(at least one,stop when input 0)\n",sum);

printf("Password:");

scanf("%d",&New->password);

while(New->password == 0){

printf("Error ! please input again£∫\n");

scanf("%d",&New->password);

}

while(1){

New->ID = sum;

if(sum == 1){

New->next = Head;

End = New;

Head = New;

}

else{

New->next = Head;

End->next = New;

End = New;

}

sum++;

New = (struct Josephe \*)malloc(sizeof(struct Josephe));

printf("Please input NO.%d date\n",sum);

printf("Password:");

scanf("%d",&New->password);

if(New->password == 0){

sum--;

break;

}

}

free(New);

return Head;

}

print(struct Josephe \*Head){

struct Josephe \*p;

int i = 1;

p = Head;

while(1){

printf("The NO.%d password:%d\n",i++,p->password);

p = p->next;

if(p == Head)

break;

}

}

Delete(struct Josephe \*Head){

struct Josephe \*p,\*q,\*r;

int i = 0,j = 0;

int x;

p = q = Head;

printf("Please input the first ID that was deletes:");

scanf("%d",&i);

while(i<1 || i>sum){

printf("Error ! please input again£∫\n");

scanf("%d",&i);

}

while(1){

for(x=1;x<i;x++){

p = q;

q = q->next;

}

if(i == 1&&j != 1){

while(p->next != Head)

p = p->next;

Head = q->next;

}

p->next = q->next;

i = q->password;

r = q;

q = q->next;

j = 1;

printf("The NO.%d is deleted, password:%d\n",r->ID,r->password);

if(p == q){

printf("The NO.%d is deleted, password:%d\n",q->ID,q->password);

break;

}

free(r);

}

}

main(){

struct Josephe \*Head;

Head = creat();

print(Head);

Delete(Head);

}