#include<stdio.h>

#include<stdlib.h>//链表节点结构体定义

typedef struct list\_item{

int data;

struct list\_item \*next;

}list\_item;//非递归版本的链表空间释放函数erase\_list

void erase\_list(list\_item \*head){

list\_item \*current =head;

list\_item \*next;

while(current!=NULL){

next =current->next;

free(current);

current=next;

}

}//测试主函数

int main(){//创建一个简单链表

list\_item \*head=(list\_item\*)malloc(sizeof(list\_item));

list\_item \*node1=(list\_item\*)malloc(sizeof(list\_item));

list\_item \*node2=(list\_item\*)malloc(sizeof(list\_item));

head->data =1;

head->next =node1;

node1->data =2;

node1->next =node2;

node2->data =3;

node2->next =NULL;//释放链表空间

erase\_list(head);

return 0;

}