//COS10007 – Developing Technical Software//  
// Lab 6 – Week 6//  
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1/  
#include <stdio.h>

#include <stdlib.h>

//data structure

struct Node {

char data;

struct Node\* next;

};

void add(struct Node\*\* head, char c) {

struct Node\* newNode = (struct Node\*)malloc(sizeof(struct Node));

newNode->data = c;

newNode->next = NULL;

//declaring

if (\*head == NULL) {

\*head = newNode;

} else {

struct Node\* current = \*head;

while (current->next != NULL) {

current = current->next;

}

current->next = newNode;

}

}

//list 1 and list 2

void concatenate(struct Node\*\* list1, struct Node\* list2) {

struct Node\* current = \*list1;

while (current->next != NULL) {

current = current->next;

}

current->next = list2;

}

void print(struct Node\* head) {

struct Node\* current = head;

while (current != NULL) {

printf("%c ", current->data);

current = current->next;

}

printf("\n");

}

/input data into list 1

int main() {

struct Node\* list1 = NULL;

add(&list1, 'a');

add(&list1, 'b');

add(&list1, 'c');

/input data into list 2

struct Node\* list2 = NULL;

add(&list2, 'd');

add(&list2, 'e');

add(&list2, 'f');

concatenate(&list1, list2);

// printing list 1

printf("List 1: ");

print(list1);

//printing list 2

printf("List 2: ");

print(list2);

return 0;

}  
  
Output code :   
