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#include <stdio.h>
#include "linklist.h"

void test_get();
void test_insert();
void test_delete();
void test_reverse();
void test_adjmax();

int main(int argc, const char *argv[])
{
    test_adjmax();

    return 0;
}

void test_adjmax() {
    linklist H;
    linklist r;
    int value;
    int sum;

    H = list_create();
    if (H == NULL)
        return;

    printf("input:");
    while (1) {
        scanf("%d", &value);
        if (value == -1)
            break;
        list_tail_insert(H, value);
        printf("input:");
    }
    list_show(H);

    r = list_adjmax(H, &sum);
    if (r != NULL && r != H) {
        printf("data=%d, sum=%d\n", r->data, sum);
    }

    list_show(H);

    list_free(H);
}

void test_reverse() {
    linklist H;
    int value;

    H = list_create();
    if (H == NULL)
        return ;

    printf("input:");
    while (1) {
        scanf("%d", &value);
        if (value == -1)
            break;

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        list_tail_insert(H, value);
        printf("input:");
    }

    list_show(H);
    list_reverse(H);
    list_show(H);

    list_free(H);
}

void test_delete() {
    linklist H;
    int value;

    H = list_create();
    if (H == NULL)
        return;

    printf("input:");
    while (1) {
        scanf("%d", &value);
        if (value == -1)
            break;
        list_tail_insert(H, value);
        printf("input:");
    }

    list_show(H);
    printf("H=%p\n", H);
    H = list_free(H);
    printf("H=%p\n", H);
    list_delete(H, -4); // 1 3 5 7
    list_show(H);

    list_free(H);
}

void test_get() {
    linklist H;
    int value;
    linklist p;

    H = list_create();
    if (H == NULL)
        return;

    printf("input:");
    while (1) {
        scanf("%d", &value);
        if (value == -1)
            break;
        list_tail_insert(H, value);
        printf("input:");
    }

    list_show(H);

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    p = list_get(H, 4); // 1 3 5 7
    if (p != NULL)
        printf("value=%d\n", p->data);
}

void test_insert() {
    linklist H;
    int value;

    H = list_create();
    if (H == NULL)
        return;

    printf("input:");
    while (1) {
        scanf("%d", &value);
        if (value == -1)
            break;
        list_tail_insert(H, value);
        printf("input:");
    }

    list_show(H);
    list_insert(H, 100, 0); // 1 3 5 7
    list_show(H);
}

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create → 接判
 tail_insert → (printf 至 value=-1)
 show → H
 insert. → H 数位
 show → H