

```

/*****
/*
/*          List0.c
/*
/*          (Feb 03, 2008)
/*
/*          written by Kazutoshi Ando
/*
/*          Department of Systems Engineering
/*          Shizuoka University
/*          Hamamatsu 432-8561, Japan
/*
*****/
#include <stdio.h>

typedef struct cell{
    int element;
    struct cell *next;
} cell;

cell *head;

/*****
/*          関数名: writelist
/*          動作: リストの中身を画面に出力する。
*****/
void writelist(void) {
    cell *temp=head;
    printf("List: [");
    while (temp != NULL) {
        printf("%5ld", temp->element);
        if (temp->next != NULL) putchar(',');
        temp = temp->next;
    }
    printf("]\n");
}

main() {
    cell *cellp1,*cellp2,*cellp3;
    writelist();

    cellp1 = (cell *)malloc(sizeof(cell));
    cellp1->element=1;
    cellp1->next=NULL;

    cellp2 = (cell *)malloc(sizeof(cell));
    cellp2->element=2;
    cellp2->next=NULL;

    cellp3 = (cell *)malloc(sizeof(cell));
    cellp3->element=3;
    cellp3->next=NULL;

    head = cellp1;
    writelist();

    cellp1->next = cellp2;
    writelist();

    cellp2->next = cellp3;
    writelist();

}

```