Liste simplu înlănțuite

https://github.com/alexchirea/TutoriatPC2018/blob/master/liste_simplu_inlantuite.c

```
#include <stdio.h>
#include <stdlib.h>
/* Structura unui nod */
typedef struct nod {
   int info;
    struct nod *next;
} nod;
/* Functie inserare nod nou la sfarsitul listei */
void inserare(int info, nod **st, nod **sf)
   nod *noulNod = (nod*) malloc(sizeof(nod));
   noulNod->info = info;
    noulNod->next = NULL;
    if (*st == NULL)
        *st = noulNod;
        *sf = noulNod;
    else
        (*sf) ->next = noulNod;
        *sf = noulNod;
    return;
/* Functie parcurgere si afisare lista */
void afis(nod *st)
   nod *aux = st;
    while (aux != NULL)
        printf("%d ", aux->info);
        aux = aux->next;
    printf("\n");
    return;
/* Functie care cauta o valoare si intoarce adresa nodului */
nod* cautare(int deCautat, nod *st)
    nod *aux = st;
    while (aux != NULL)
        if (aux->info == deCautat)
           return aux;
        aux = aux->next;
    return NULL;
/* Functie de stergere a unui nod ce contine valoarea x */
void stergere(int x, nod **st, nod **sf)
```

```
nod *aux = *st, *anterior;
    while (aux != 0)
        if (aux->info == x)
            if (aux == *st) /* Caz I: primul nod */
                *st = aux->next;
                free (aux);
                aux = *st;
            else if (aux == *sf) /* Caz II: ultimul nod */
                free (aux);
                *sf = anterior;
                anterior->next = 0;
            else /* Caz III: in interioriul listei */
                anterior->next = aux->next;
                free (aux);
                aux = anterior;
        anterior = aux;
        aux = aux->next;
    return;
int main()
   nod *start, *sfarsit;
    start = sfarsit = 0; /// 0 == NULL
    int n, i, x;
    scanf("%d", &n);
    for(i = 0; i < n; i++)
        scanf("%d", &x);
        inserare(x, &start, &sfarsit);
    afis(start);
    stergere (5, &start, &sfarsit);
    afis(start);
    stergere(1, &start, &sfarsit);
    afis(start);
    stergere (8, &start, &sfarsit);
    afis(start);
    /**
    * EXEMPLU
     * stdin:
     * 10 1 3 4 5 9 6 5 8 1 8
     * stdout:
     * 1 3 4 5 9 6 5 8 1 8
     * 1 3 4 9 6 8 1 8
     * 3 4 9 6 8 8
     * 3 4 9 6
```

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