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#include<stdio.h>
#include<stdlib.h>

////per testare
//cat input0.txt |./h | diff -
output0.txt

typedef struct node_{
    int key;
    struct node_* next;
} node;

int hash(int x,int a, int b, int len){
    int p=999149;
    return ((a*x+b)%p)%len;
}

void insert_list(node** list, int x){
    node*
new=(node*)malloc(sizeof(node));
    new->key=x;
    new->next=*list;
    *list=new;
}

void insert(node** ht, int x,int a, int b, int len){
    int index=hash(x,a,b,len);
    insert_list(&ht[index],x);
}

int len(node* list){
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if (list==NULL) return 0;
return 1+len(list->next);
}

int main(){
    int n,a,b,x,i;
    int maxLen=0, conflicts=0,l;

    scanf("%d",&n);
    node** ht=
malloc(2*n*sizeof(node*));
    for (i=0;i<2*n;i++)
        ht[i]=NULL;

    scanf("%d",&a);
    scanf("%d",&b);

    for (i=0;i<n;i++){
        scanf("%d",&x);
        insert(ht,x,a,b,2*n);
    }

    for (i=0;i<2*n;i++){
        l=len(ht[i]);
        if (l>maxLen)
            maxLen=l;
        conflicts+=l?l-1:0;
        //if(l)
        //    conflicts+=l-1;
        //else
        //    conflicts+=0;
    }
}
```

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    }
    printf("%d\n%d\n", maxLen,
conflicts);

}
```