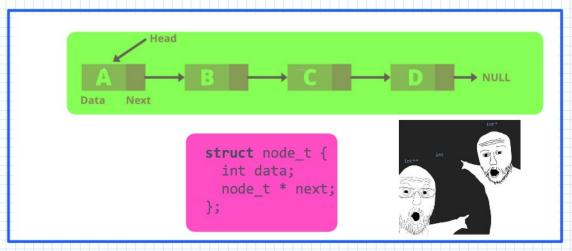


SIMPLE LINKED LIST



Posso implementare qualsiasi algoritimo in C/C++ Per implementarla! Se vaglio climitare C, colleges B a D!: Poute!

LISTA DI STRINGHE

la non conoscor la dimensione della mua stringa e non ha rossibilità di difinire il node come ha

come facció a realizzara un modor di lista a dimensione vaveiabile? Verrori glessivili
E roi un puratore a nexi.

```
struct node_t {
    struct node_t *next;
    unsigned char payload[];
};

struct node_t *add_after(struct node_t *prev, char *str)
{
    size_t len = strlen(str) + 1;
    struct node_t *node = malloc(sizeof(*node) + len);
    memcpy(node->payload, str, len);
    node->next = prev->next;
    prev->next = node;

    return node;
}
```

FILE STRING.

MAIN. C

LIST. C

```
#include <stdio.h>
#include <stdbool.h>
#include "list.h"

struct node_t *līst;

int visit(const char *str, bool first)
{
    return printf("%s%s", !first ? ", " : "", str);
}

int main(void)
{
    struct node_t *curr, *one, *two;
    init_list(&list);
    curr = add_after(list, "First string");
    curr = add_after(curr, "Second string");
    one = curr = add_after(curr, "Third string");
    curr = add_after(curr, "Fourth string");
    curr = add_after(curr, "Fisth string");
    curr = add_after(curr, "Sixth string");
    curr = add_after(curr, "Sixth string");
    list_foreach(list, visit); puts("");
    remove_entry(&list, one);
    remove_entry(&list, two);
    list_foreach(list, visit); puts("");

    fini_list(&list);
}
```

LIST. H

```
#pragma once
#include <stdbool.h>

struct node_t;

typedef int (*visitor_t)(const char *str, bool first);

void remove_entry(struct node_t **head, struct node_t *const entry);

struct node_t **add_after(struct node_t *prev, char *str);

void init_list(struct node_t **head);

void fini_list(struct node_t **head);

void list_foreach(struct node_t *head, visitor_t eval);
```

dati astratil, ci scriu selet L grame, per madigrana

le implementazioni modifico questo sice?

```
MAKEFILE:
```

Come jaccio ad enteres che quelo Heaner Venga incluso pri Volta dal mo programma?

PRAGKA ONCE

<stdbool.h>
<string.h>
<stdlib.h>
"list.h"

struct node_t {
 struct node_t *next;
 unsigned char payload[];

*head = entry->next; free(entry);

node;

ile(*head)

le ((*head) != entry) { head = &(*head)->next;

memcpy(node->payload, str, len);
node->next = prev->next;
prev->next = node;

void init_list(struct node_t ** const head)
{
 *head = malloc(sizeof(**head) + 1);
 (*head)->payload[0] = '\0';
 (*head)->next = NULL;

void fini_list(struct node_t **head)

remove_entry(head, *head);

struct node_t *curr = head->next;
bool first = true;

first &= false:

void list_foreach(struct node_t *head, visitor_t eval)

void remove_entry(struct node_t **head, struct node_t *const entry)

struct node_t *add_after(struct node_t *prev, char *str)
{
 size_t len = strlen(str) + 1;
 struct node_t *node = malloc(sizeof(*node) + len);

dies al preprocessare di includera solo una volta l'header in altri fice!