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// queue.c
// All
11
// Created by Filippo Fontanelli on 02/04/11.
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#include "queue.h"
int init(queue *q, int *want_opt) {
    if (q != NULL) {
        q->want_opt = want_opt;
        q->cnt = EMPTY;
        q->length_string = EMPTY;
        q->tot space = EMPTY;
        q->front = NULL;
        q->rear = NULL;
    } else
        return ERROR;
    return 0;
int init_token(token *t) {
    int \bar{i}, j;
    if (t != NULL) {
        MALLOC(t->stringa, sizeof(char)*DEFAULT_NUM_COLUM)
        for (j = 0;j< 2;j++){
   for (i = 0; i< NUM_FORMATTAZIONI;i++)</pre>
                t->formattazione[i][j] = storico_formattazione[i][j];
        MALLOC(t->link, sizeof(char)*LINK)
        t->n_space = 0;
        t->next = NULL;
    } else
        return ERROR;
    return 0;
int enqueue(token *t,queue *q) {
    int i,j;
    if (q == NULL) return ERROR;
    if (!empty(q)) {
        q->rear->next = t;
        q->rear = t;
    } else
        q->front = q->rear = t;
    a->cnt++:
    q->length_string+= strlen(t->stringa);
    q->tot_space+= t->n_space;
    for (j = 0; j < 2; j++){
        for (i = 0; i < NUM_FORMATTAZIONI;i++)</pre>
            storico_formattazione[i][j] = t->formattazione[i][j];
    return 0;
token* dequeue(queue *q) {
    if (q == NULL) return NULL;
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token *p; p = q->front; q->front = q->front->next; q->cnt--; return p; } token* front(const queue *q) { if (q == NULL) return NULL; return q->front; } token* rear(const queue *q) {
 if (q == NULL) return NULL; return q->rear; } int empty(const queue *q) { return (q->cnt == EMPTY); int full(const queue *q) { return (q->cnt == FULL); int free_token(token* t) { if(t != NULL){ free(t->stringa); free(t->link); free(t); }else return ERROR: return 0; } int free_queue(queue *q) { if(q != NULL){ while(!empty(q)) { free_token(dequeue(q)); free(q); }else return ERROR; return 0;

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