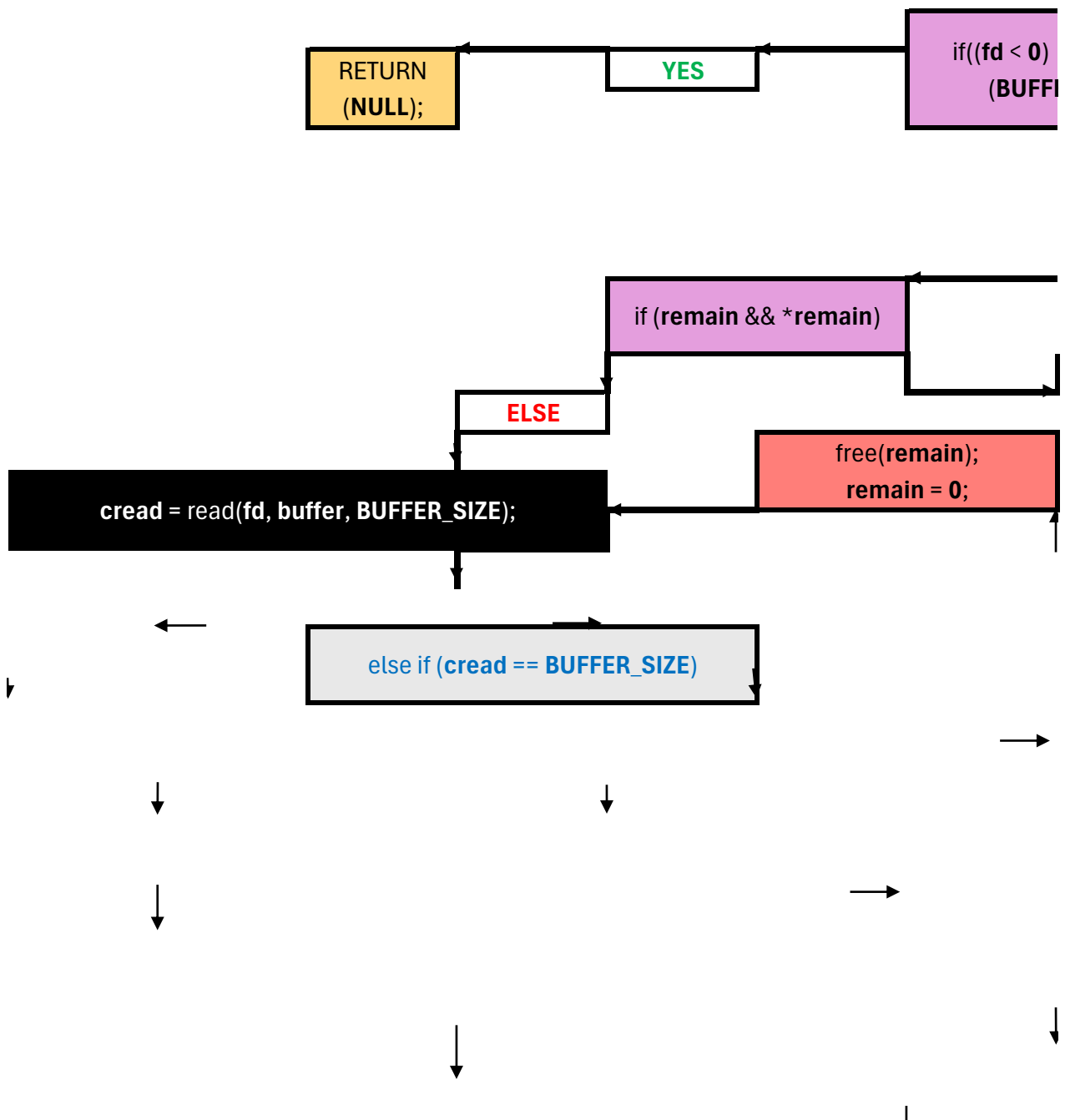
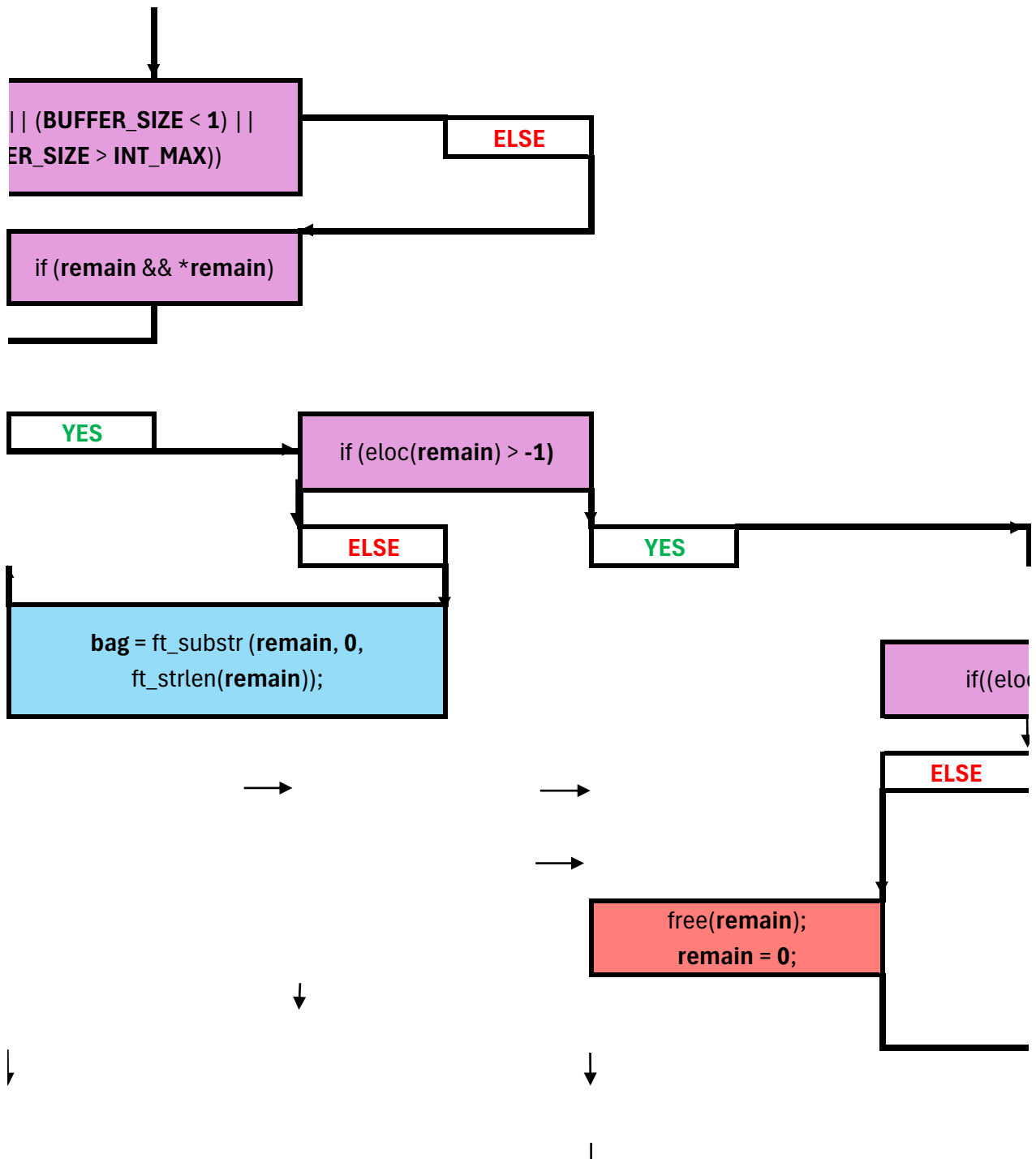


VARIABLES					
NUMBER	TYPE	KIND	POINTER	NAME	ARRAY
1		int		fd	
2	static	char	*	remain	
3		char	*	bag	
4		int		cread	
5		char		buffer	(BUFFER_SIZE + 1)
6		char	*	line	
7		char	*	temp	

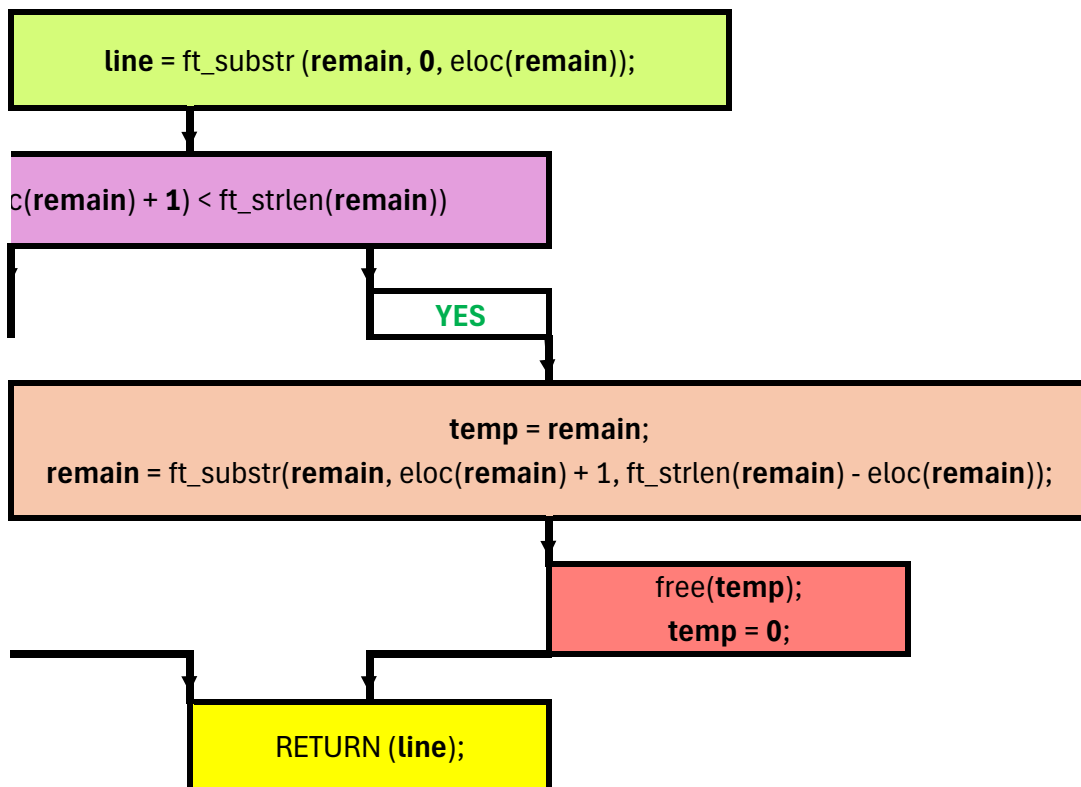


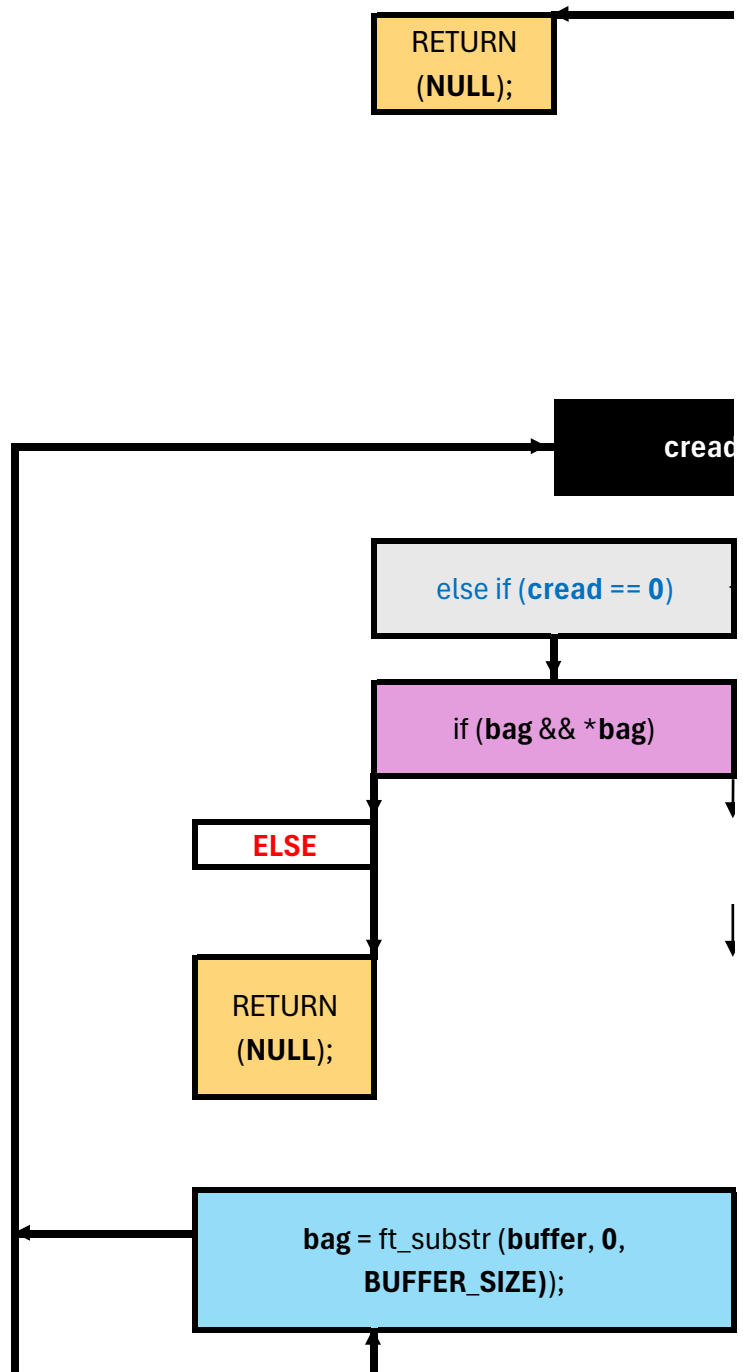


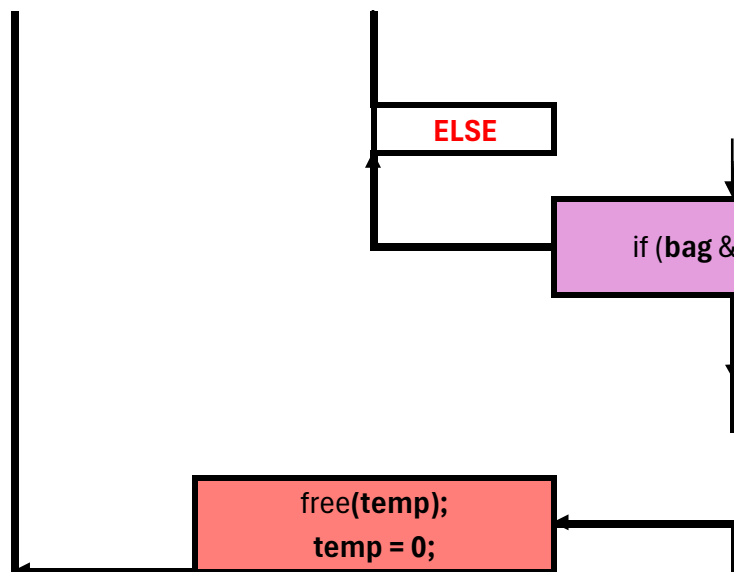




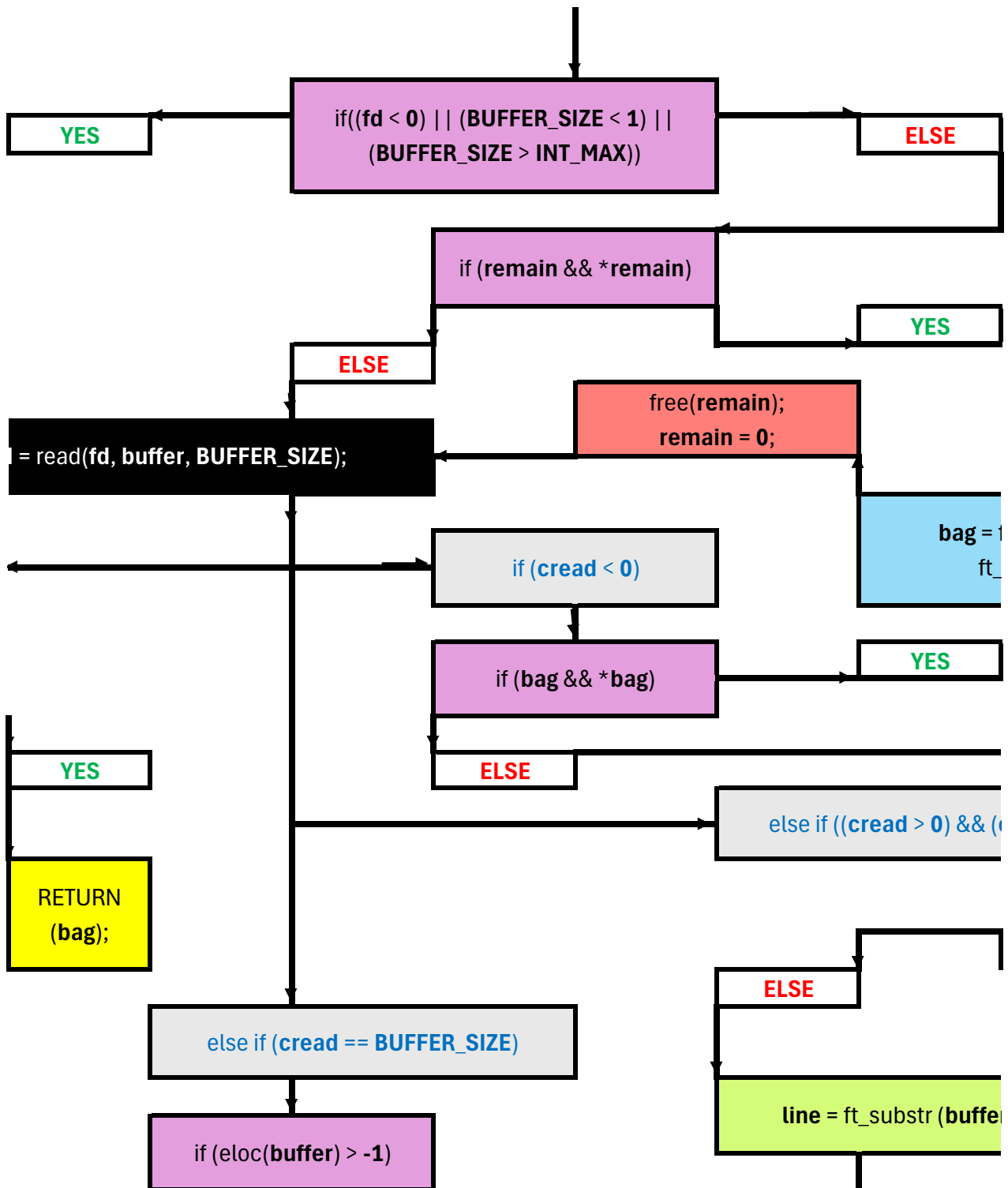


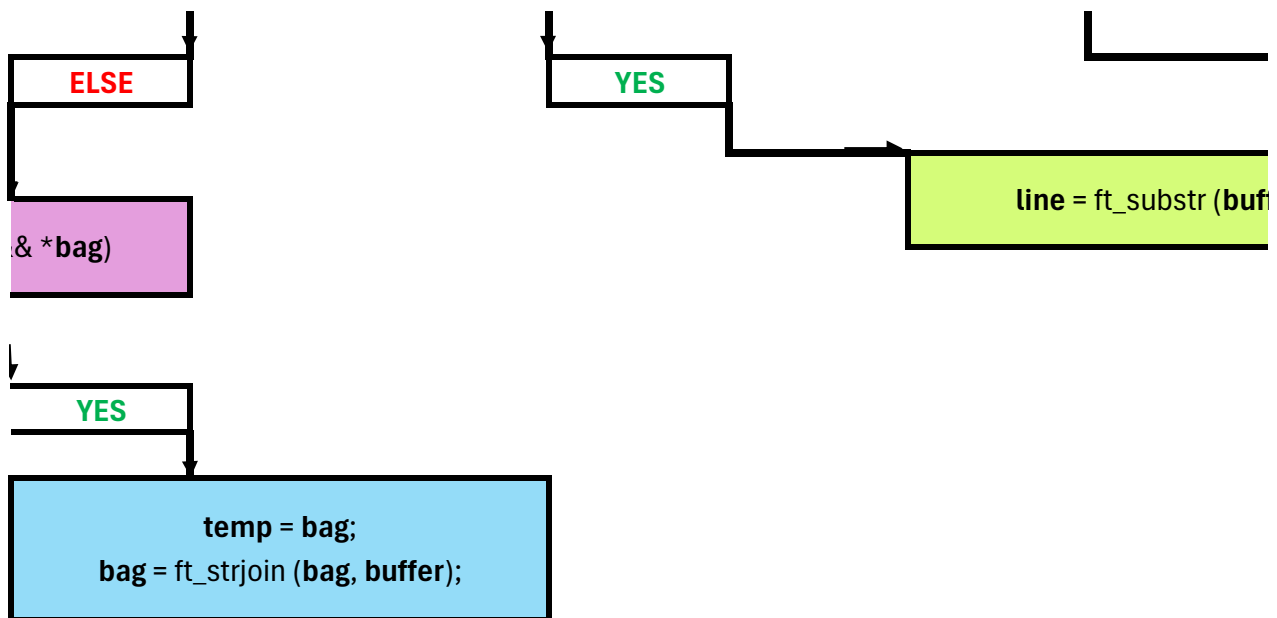






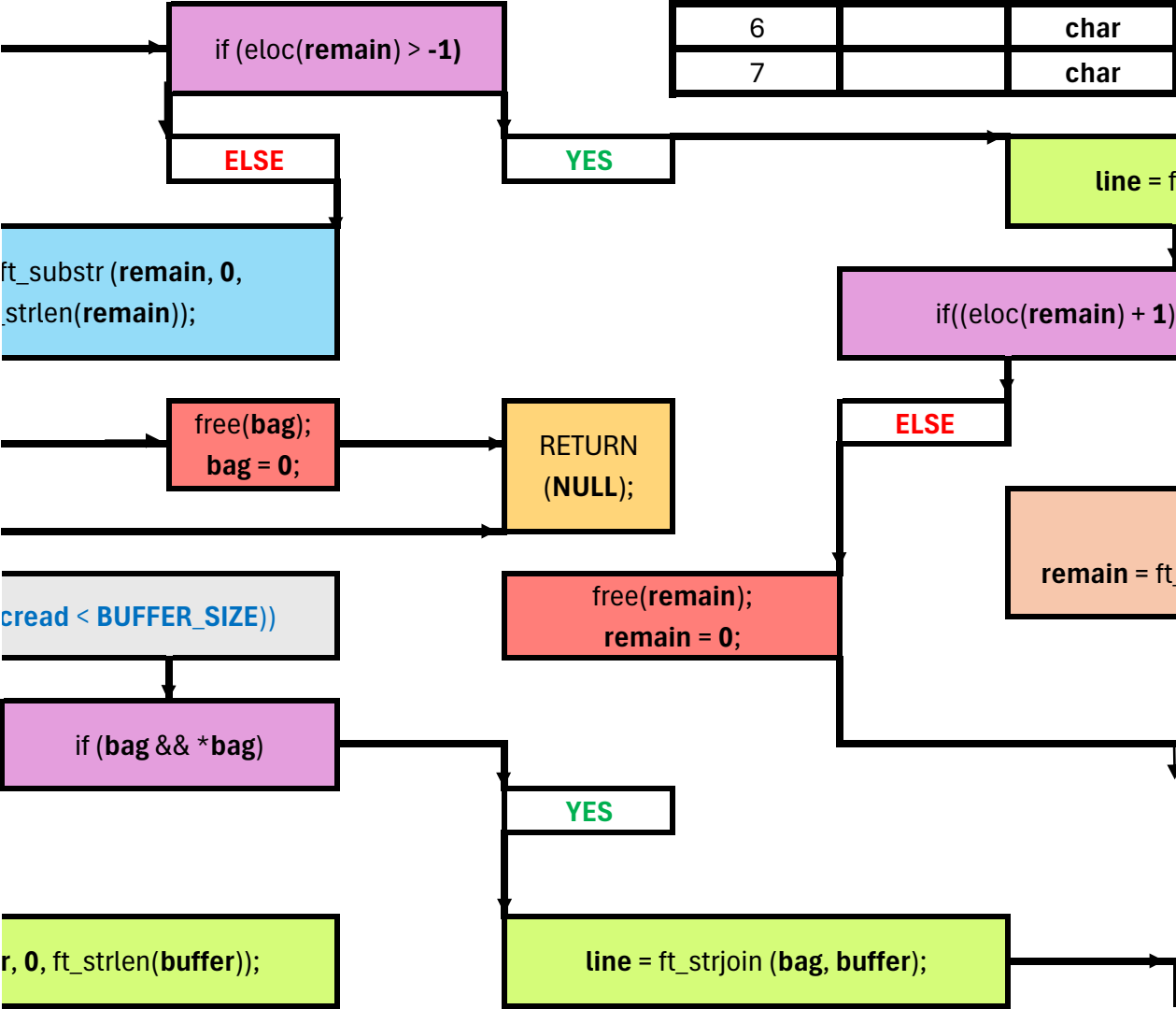
COPY STRING:	size_t ft_strlcpy(
STRING'S LENGHT:	int ft_strlen(char
MAKE A SUB-STRING:	char *ft_substr(
LOCATE END OF LINE:	int eloc(char *tx
JOIN STRINGS:	char *ft_strjoin(
GET NEXT LINE:	char *get_next_l

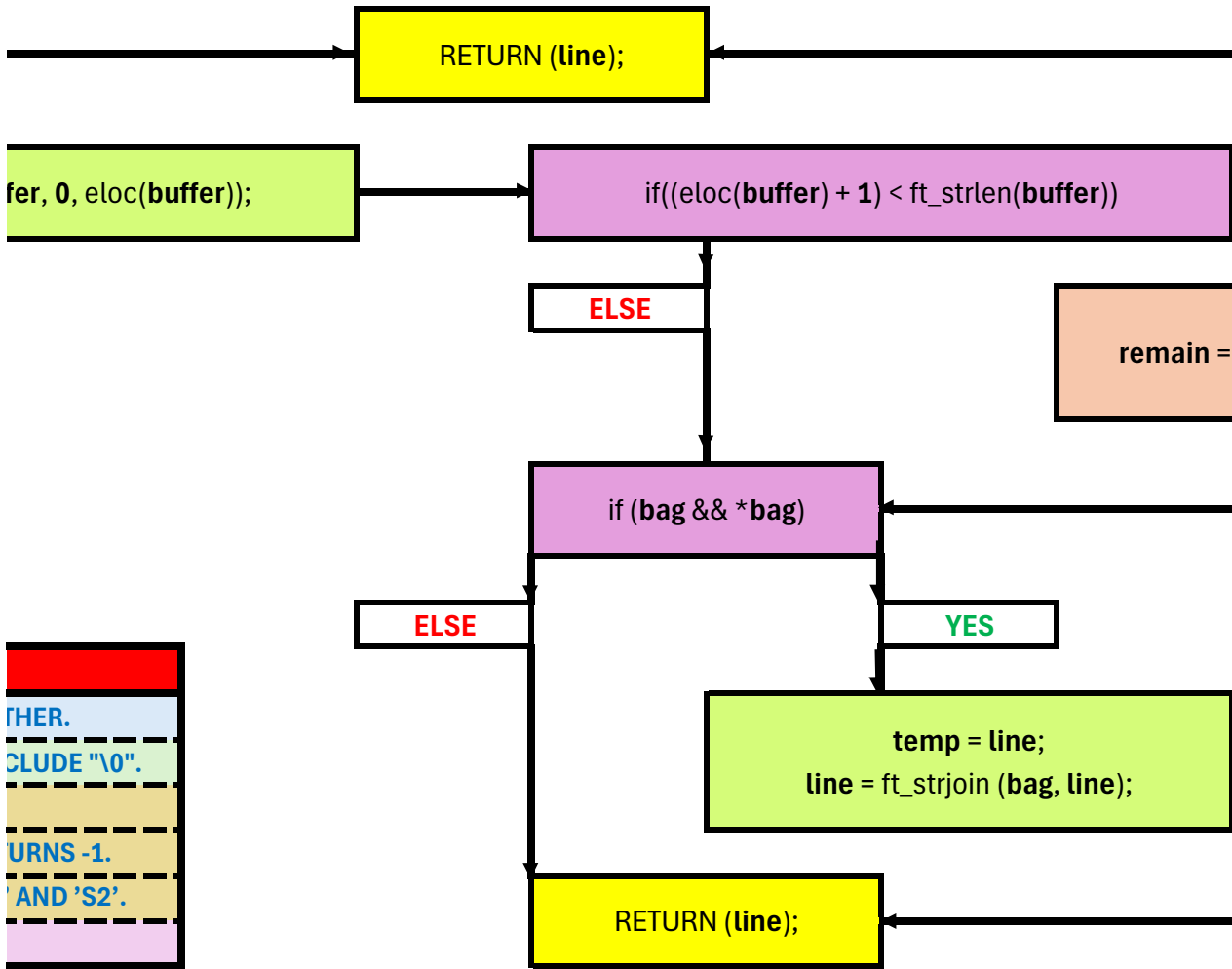




EXTRA FORMULAS:	
(char *dst, const char *src, size_t n);	COPY X NUMBER OF CHARACTERS FROM A STRING TO ANOTHER
char *txt);	COUNTS THE TOTAL NUMBER OF CHARACTERS, DOESNT INCLUDE THE NULL CHARACTER
char const *s, unsigned int start, size_t len);	CREATE A SUBSTRING FROM A STRING.
char const *s, int start, int end);	SEARCH FOR THE POSITION OF FIRST "\n", OTHERWISE RETURN THE POSITION OF THE END OF THE STRING
char const *s1, char const *s2);	CREATE A NEW STRING, THE RESULT OF THE CONCATENATION OF 'S1' AND 'S2'
line(int fd);	GETS NEXT LINE FROM A FILE DESCRIPTOR.

NUMBER	TYPE	KIND
1		int
2	static	char
3		char
4		int
5		char
6		char
7		char

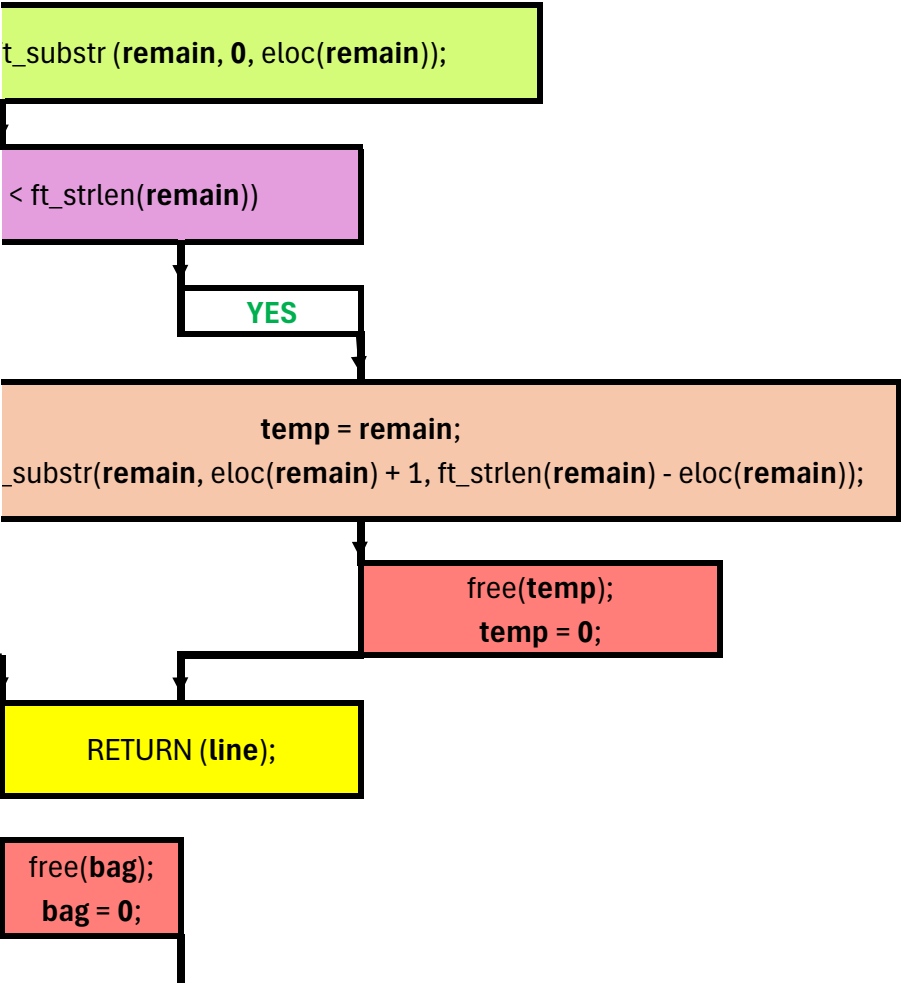


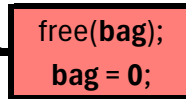
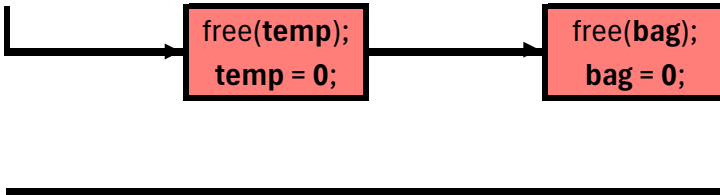
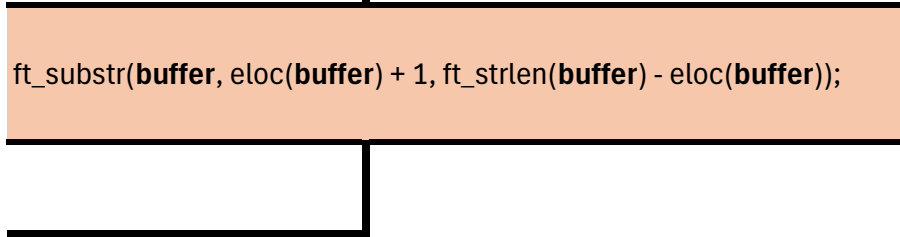
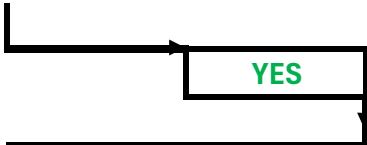


OTHER.
CLUDE "\0".
URNS -1.
AND 'S2'.
[Empty box]

remain =

VARIABLES		
POINTER	NAME	ARRAY
	fd	
*	remain	
*	bag	
	cread	
	buffer	[BUFFER_SIZE + 1]
*	line	
*	temp	





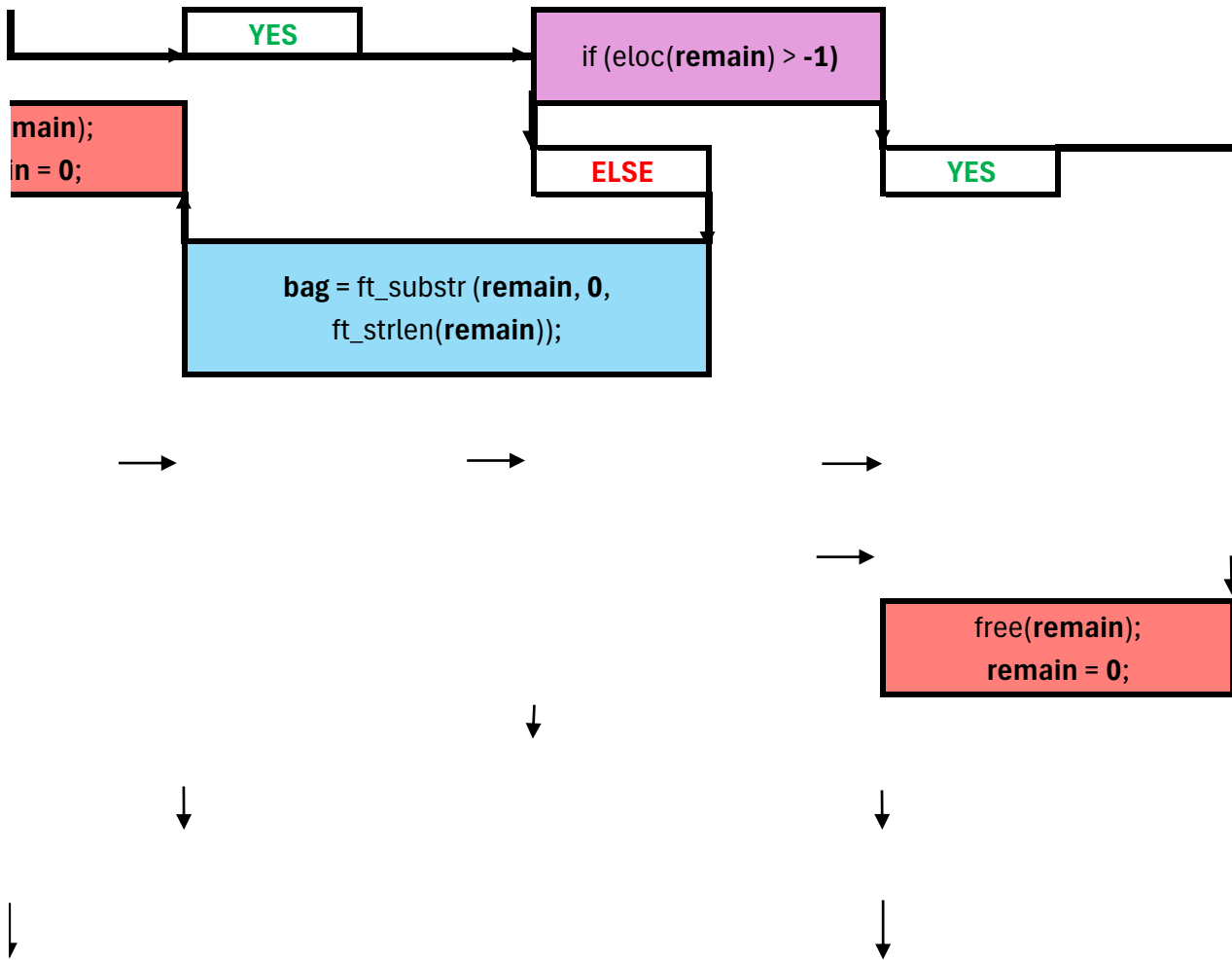
↓

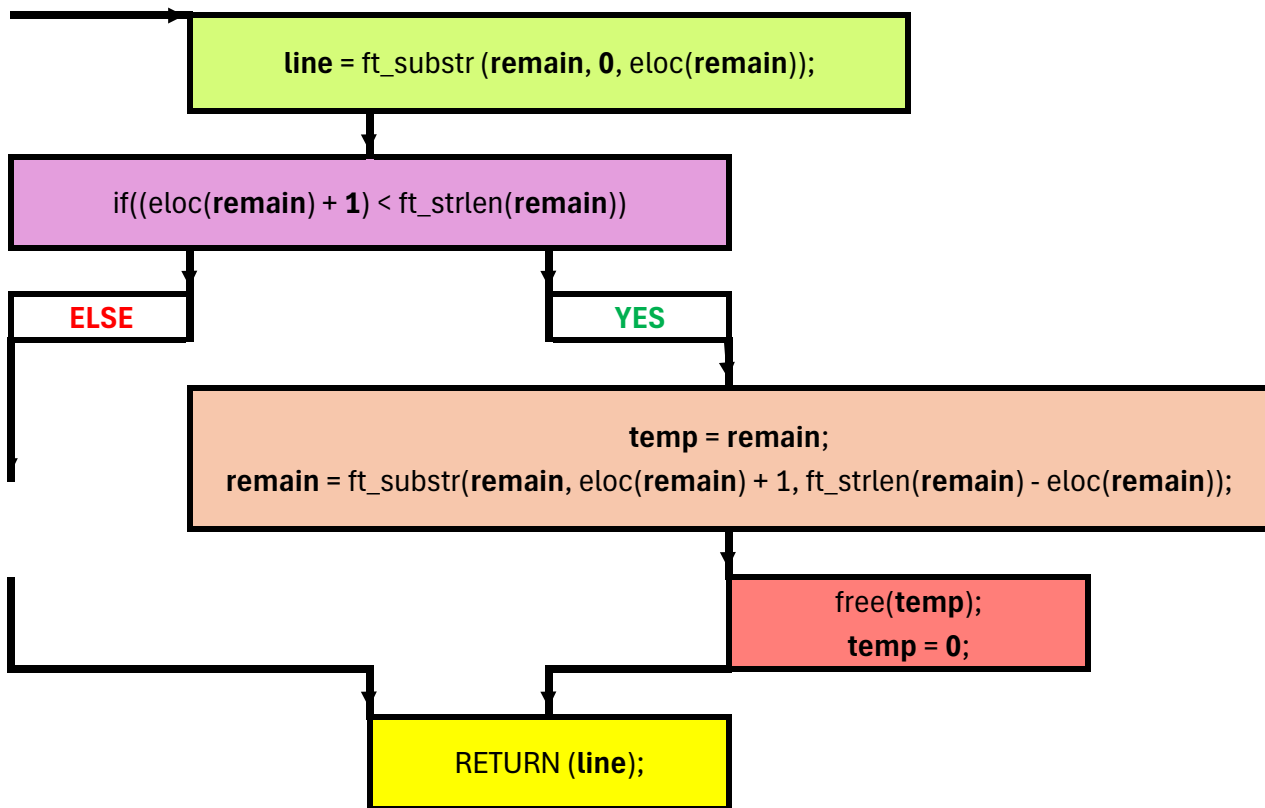
↓

↑


```
if (remain && *remain)
```





```
char *initializ  
char *read_ar  
**r);  
void cleanup_  
char *b);
```

```
char *get_nex  
char *line =  
static char
```

```
line = initializ  
if (line != NUL  
return (line);
```

```
line = read_ar  
cleanup_mer  
return (line);  
}
```

```

e_and_preprocess(int fd);
rd_process_input(int fd, char
memory(char *line, char *r,

t_line(int fd) {
    NULL;
    *r = NULL;

e_and_preprocess(fd);
.L)
);

rd_process_input(fd, &r);
nory(line, r, NULL);

char *initialize_and_preprocess(int fd) {
    char *line = NULL;
    static char *r = NULL;

    if ((fd < 0) || (BUFFER_SIZE < 1) ||
        (BUFFER_SIZE > INT_MAX))
        return NULL;

    if (r && *r) {
        int loc = eloc(r);
        if (loc > -1) {
            line = ft_substr(r, 0, loc);
            if (loc < ft_strlen(r)) {
                char *tmp = ft_substr(r, loc,
ft_strlen(r) - loc);
                free(r);
                r = tmp;
            } else {
                free(r);
                r = NULL;
            }
            return line;
        } else {
            free(r);
            r = NULL;
        }
    }

    return line;
}

char *read_and_process_input(
**r_ptr) {
    char *line = NULL;
    char buff[BUFFER_SIZE + 1];
    int cread = 0;

    clean(buff, BUFFER_SIZE);
    cread = read(fd, buff, BUFFER_SIZE);

    if (cread <= 0) {
        return NULL;
    } else {
        char *r = NULL;
        if (*r_ptr)
            r = *r_ptr;
        *r_ptr = ft_strjoin(r, buff);
        free(r);
        if (!*r_ptr)
            return NULL;

        line = ft_substr(*r_ptr, 0, el
        if (eloc(*r_ptr) >= 0) {
            char *tmp = *r_ptr;
            *r_ptr = ft_substr(*r_ptr, el
ft_strlen(*r_ptr) - eloc(*r_ptr));
            free(tmp);
        } else {
            free(*r_ptr);
            *r_ptr = NULL;
        }
        return line;
    }
}

```

t(int fd, char

R_SIZE);

oc(*r_ptr));

eloc(*r_ptr),

