

CSV.C

```
#include "csv.h"

#include <stdio.h>
#include <string.h>

#include "alloc.h"
#include "llist.h"

static char DELIMITER = ',';

LinkedList** csv_read(const char* const filename, size_t* const c)
{
    *c = 0;
    FILE* f = fopen(filename, "r");
    if (!f)
        return NULL;

    char line[256];
    size_t lineCount = 0;
    while (fgets(line, sizeof(line), f))
        ++lineCount;

    LinkedList** csv = (LinkedList**)malloc(sizeof(LinkedList*) * lineCount);
    if (!csv)
        return NULL;

    rewind(f); // go back to the beginning
    while (fgets(line, sizeof(line), f))
    {
        LinkedList* entry = ll_new();
        size_t p = 0;
        while (p < strlen(line))
        {
            if (line[p] == DELIMITER || line[p] == '\n')
            {
                ++p;
            }
        }
    }
}
```

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    }
    else
    {
        size_t len = 0;
        if (line[p] == '"')
        {
            ++p;
            size_t end = p;
            while (line[end] != '"')
                ++end;
            len = end - p;
        }
        else
        {
            size_t end = p;
            while (line[end] != DELIMITER && line[end] != '\n')
                ++end;
            len = end - p;
        }
        char* str = mt_malloc(sizeof(char) * (len + 1));
        memcpy(str, line+p, sizeof(char) * len);
        str[len] = '\0';
        ll_push_back(entry, str);
        p += len + 1;
    }
}
if (ll_size(entry))
    csv[( *c )++] = entry;
}
fclose(f);
return csv;
}

```