

C CHEAT SHEET

read file char-by-char

```
int main(void){
```

```
FILE *f;
int ch;
f = fopen("filename", "r");
/* some buffering necessary? */
while(ch = fgetc(f) != EOF){
    /* deal with ch */
}
/* if needed, test why last read failed? */
if (ferror(f)) fprintf(stderr, "failure");
return 0;
```

You can replace fgetc(f) with getc(f) to read from standard input.

read file line-by-line

```
int main(void){
FILE *f;
char line[1024];
f = fopen("filename", "r");
/* some buffering necessary? */
while(getline(&line, sizeof line, f) != EOF){
    /* deal with line */
}
/* if needed, test why last read failed? */
if (ferror(f)) fprintf(stderr, "failure");
return 0;
```

Check for Empty Member

How to declare a TAMP?

By using empty braces as the last member of a struct.

How to define the struct array containing a TAMP?

```
int p[10] = {0};
TAMP t[10];
```

Do not use TAMPs. They may have an extra backslash. Don't use them, just use a dirty hack.

calloc() functions with a FILE pointer as the end

```
char *strcpy(char *, int, FILE *);
int fputs(char *, FILE *);
int fputs(char *, FILE *);
size_t fread(void *, size_t, size_t, FILE *);
FILE *fread(void *, char *, FILE *);
size_t fwrite(void *, size_t, size_t, FILE *);
int fprintf(FILE *);
```

dynamic memory

Remember to include <stdlib.h>

Allocate

```
malloc: ptr = malloc(n * sizeof type);
```

```
calloc: ptr = calloc(n, sizeof type);
```

Change size

```
realloc: newsize = n * sizeof type; tmp = realloc(ptr, newsize); if (tmp) ptr = tmp; else /* ptr is still valid */
```

Release

```
free ptr(ptr);
```

memory tracking routines

Why do I receive the fatal message in a debug?

```
free = 0; fflush();
```

```
if (free <= 0) fprintf(stderr, "free: %d\n", free);
```

```
or, if you don't need to keep and update data keep:
```

```
char *strdup(const char *);
```

It has to be used in addition, do not call strdup(). You can pass the updated free to the caller.

PRINTF() works

Printf's needed

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
#include <sys/types.h>
```

```
#include <unistd.h>
```

```
#include <math.h>
```

```
long to find and connect a socket
```

```
socket();
```

```
connect();
```

```
if needed: close();
```

```
after loop: free(structs);
```

```
gethostname(); gethostname();
```

```
sizeof() or sizeof() or sizeof() or sizeof();
```

```
close();
```

Predefined C macros

```
__FILE__
"filename.c" or something like that
__LINE__
42 or another integer
```

Counting

Counting characters, words, lines in the text

```
char *s;
scanf("%i", &count);
while(ch = fgetc(f) != EOF){
    /* deal with ch */
}
```

Specifically, it can be the return value of malloc() in a debugger with the --no-dwarf option-dwarf knows what he was doing or debug otherwise a good language for the implementation of whatever he's doing

Predefined C macros (cont)

```
__STDC__
#
__STDC_VERSION__
sizeof(int)
sizeof(char)
sizeof(short)
sizeof(long)
sizeof(long long)
sizeof(int)
sizeof(float)
sizeof(double)
sizeof(long double)
sizeof(void)
sizeof(char*)
sizeof(int*)
sizeof(float*)
sizeof(double*)
sizeof(long double*)
sizeof(void*)
sizeof(char**)
sizeof(int**)
sizeof(float**)
sizeof(double**)
sizeof(long double**)
sizeof(void**)
sizeof(char**)
```

Predefined identifiers

Predefined for all users anywhere

```
__FILE__
__LINE__
__DATE__
__TIME__
__STDC__
__STDC_VERSION__
__STDC_HOSTED__
__STDC_HOSTED__
```

```
__STDC_HOSTED__
__STDC_HOSTED__
```

Pic C Reference Haruns

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