

# C CHEAT SHEET

## read file line-by-line

stdio.h, stdio.h

```
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, "uh-oh\n");
fclose(f);
```

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

## read file line-by-line

stdio.h, stdio.h

```
FILE *f;
char line[256];
f = fopen("filename", "r");
/* some buffering necessary */
while (fgets(line, sizeof line, f))
    /* deal with line */
}
/* if needed, test why last read failed */
if (ferror(f)) fprintf(stderr, "uh-oh\n");
fclose(f);
```

## Allocate Using malloc()

How to declare a TAMP?

By using integer base bits as the last member of a struct.

How to define the size for an object containing a TAMP?

```
ptr = malloc(sizeof *ptr + sizeof(TAMP));
PE [sizeof(ptr) + 1];
```

Do not use calloc(). They may know an object has a buffer. Don't use calloc() then, build the buffer back.

stdio.h, functions with a FILE pointer as the first

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

## dynamic memory

Descriptor to allocate, void\* to

Allocate

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

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

Change size

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

Release

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

## remove trailing zeroes

Why do I remove the last number in a string?

```
len = strlen(s);
```

```
if (s[len-1] == '0') -- len; else -- len; }
```

or, if you don't need to keep and update char lengths

```
strlen(s) - 1; /* 0 */
```

If len is known by advance, do not call strlen(). You can pass the updated len to the caller.

## PRINTF works

Function needed

stdio.h, printf.h

stdio.h, printf.h

stdio.h, printf.h

stdio.h, printf.h

stdio.h, printf.h

stdio.h, printf.h

long to find and correct a broken

scanf()

scanf()

if needed, close()

after loop, fscanf(stdin)

getchar(), getchar(), getchar()

scanf() or scanf() or scanf() or scanf()

close()

## Predefined C macros

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

## Copying

Common C macros, macros, macros, macros

```
strcpy: strcpy(destination, source);
```

```
strcpy: strcpy(destination, source);
```

```
strcpy: strcpy(destination, source);
```

```
strcpy: strcpy(destination, source);
```

## Predefined C macros (cont)

```
__FILE__
__LINE__
__DATE__
"Tue Oct 2007" for example
__TIME__
"12:34:56" for example
__L__
__STDC__
__cplusplus
```

## Predefined constants

Predefined for all users anywhere

```
__FILE__ __LINE__ __DATE__ __TIME__
```

```
__STDC__ __cplusplus __STDC_VERSION__
```

```
__FILE__ __LINE__
```

```
__STDC__ __cplusplus __STDC_VERSION__
```

```
if (sizeof(char) == 1) followed by 1 or 0
```

if (sizeof(char) == 1) is present

```
1, 0, 0
```

if (sizeof(char) == 1) is present

```
1, 0, 0
```

PCBC with a few other constants

```
__FILE__ __LINE__
```

```
__STDC__ __cplusplus __STDC_VERSION__
```

```
__FILE__ __LINE__
```

```
__STDC__ __cplusplus __STDC_VERSION__
```

```
__FILE__ __LINE__
```

```
__STDC__ __cplusplus __STDC_VERSION__
```

```
__FILE__ __LINE__ __DATE__ __TIME__
```

# C Cheat Sheet The Building Coder

**G Thomas**



## **C Cheat Sheet The Building Coder:**

## **C Cheat Sheet The Building Coder** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **C Cheat Sheet The Building Coder**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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