C Cheat Sheet: stdio.h Functions

Quick reference for standard I/O functions in C

Input Functions

```
scanf()         - Reads formatted input from stdin
fscanf()        - Reads formatted input from a FILE*
sscanf()        - Reads formatted input from a string
getchar()       - Reads a single character from stdin
gets()          - Reads a string from stdin (deprecated)
fgets()         - Reads a string from a FILE*
getc()          - Reads a character from a FILE*
fgetc()         - Reads a character from a FILE*
ungetc()        - Pushes a character back to input stream
```

Output Functions

```
printf()        - Writes formatted output to stdout
fprintf()       - Writes formatted output to a FILE*
sprintf()       - Writes formatted output to a string
snprintf()      - Safe version of sprintf()
putchar()       - Writes a single character to stdout
puts()          - Writes a string to stdout with newline
fputs()         - Writes a string to a FILE*
putc()          - Writes a character to a FILE*
fputc()         - Writes a character to a FILE*
```

File Handling Functions

```
fopen()         - Opens a file
freopen()       - Reopens a file with a new stream
fclose()        - Closes a file
fflush()        - Flushes the output buffer
```

File Positioning Functions

```
fseek()         - Moves file pointer to a given position
ftell()         - Returns current file pointer position
rewind()        - Resets file pointer to beginning
fgetpos()       - Gets current position into a variable
fsetpos()       - Sets file position using fpos_t
```

Binary I/O Functions

```
fread()         - Reads binary data from a file
fwrite()        - Writes binary data to a file
```

Error Handling Functions

```
perror()        - Prints descriptive error message
clearerr()      - Clears error and EOF indicators
feof()          - Checks for end-of-file
ferror()        - Checks for file error
```

Temporary File Functions

```
tmpfile()       - Creates a temporary file
tmpnam()        - Generates a unique temporary filename
```

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Standard Streams

```
stdin          - Standard input stream
stdout         - Standard output stream
stderr         - Standard error stream
```