QuickStudy COMPUTER

C Programming Standard Library

Standard Headers and Functions

Key Features

- Collection of built-in functions and macros that:
  - Provide essential functionality
  - Ensure portability and efficiency across different systems
  - Include input/output (I/O) operations, string manipulation, memory management, mathematical calculations, error handling, and more
- By using these standardized functions, C programs can be written in a way that works consistently on any compliant compiler and operating system (OS)
- The library has evolved alongside the C language, first formalized in ANSI C (C89) and later expanded in C99, C11, and C23 to introduce features like complex numbers, threading, and atomic operations
- Despite advancements, the core functions remain efficient and minimalistic, aligning with C's philosophy of providing low-level control while avoiding unnecessary overhead
- C has undergone several standard revisions, improving functionality, portability, and efficiency while maintaining backward compatibility

Header Files

C89/C90 (ANSI C, 1989/1990) First standardized version defining the core language standard library:
`assert.h`, `ctype.h`, `errno.h`, `float.h`, `limits.h`, `locale.h`, `math.h`, `setjmp.h`, `signal.h`, `stdarg.h`, `stddef.h`, `stdio.h`, `stdlib.h`, `string.h`, `time.h`

C95 (ISO Amendment, 1995) Introduced support for wide characters and multibyte characters, enhancing C's ability to handle internationalization and localization:
`wchar.h`, `wctype.h`

C99 (1999) Introduced features like inline functions, variable-length arrays (VLAs), complex numbers, and improved floating-point support:
`complex.h`, `fenv.h`, `inttypes.h`, `iso646.h`, `stdint.h`, `tgmath.h`

C11 (2011) Added multithreading support, atomic operations, and type-generic math functions:
`stdalign.h`, `stdatomic.h`, `stdbool.h`, `stdnoreturn.h`, `threads.h`, `uchar.h`

C17/C18 (2017/2018) Minor revisions of C11, mainly fixing defects and improving compiler consistency, with no new header files

C23 (2023) The latest revision, introducing checked integer arithmetic, new attributes, and refinements to existing functionality:
`stdbit.h`, `stdckdint.h`

Including Libraries

- Headers are included using the `#include` directive
- These headers provide function prototypes, macros, and type definitions needed for various operations
- To use a library, simply include its corresponding header at the beginning of your program:

```
#include <stdio.h>  // Provides I/O
//functions like printf()
#include <stdlib.h>  // Includes memory
//management and process control functions
```

- Standard headers are enclosed in angle brackets (`<>`), which instruct the compiler to search for them in the system's default include directories
  - Unlike user-defined headers (which use `#include "file.h"`), these do not require explicit file paths
- The C standard library (libc) ensures portability, so a program using these headers will compile and behave consistently across compliant compilers and OS
  - Including only the necessary headers keeps compilation efficient and avoids unnecessary dependencies

---

assert.h: Debugging with Runtime Assertions

`assert(expression)`: runtime assertion check
`static_assert(expression, message)`: compile-time assertion check

- C doesn't have built-in exception-handling mechanisms like `try ... catch` found in other languages
  - Instead, error handling in C is typically done through return codes, `errno`, or manual checks
- The `assert.h` header provides the `assert()` macro
  - Acts as a lightweight debugging tool to catch logic errors at runtime
- If the condition inside `assert()` evaluates to `false`, the program prints an error message and terminates

- Useful for detecting invalid assumptions, such as function preconditions or impossible states
- Assertions should be used during development but can be disabled in production for performance reasons
- By defining `NDEBUG` before including `assert.h` (`#define NDEBUG`), all assertions are disabled, preventing any runtime overhead
  - You can also disable assertions at compile time with `-DNDEBUG`
- With `NDEBUG` defined, `assert()` has no effect, and the program continues execution even if the condition is `false`

EX: Input validation, checking for division by zero
- If assertion fails, output will be similar to: `Assertion failed: (b != 0), function divide, file test.c, line 6`

```
#include <stdio.h>
// Needed for printf()
#include <assert.h>

int divide(int a, int b) {
    assert(b != 0);
    // Ensure divisor is not zero
    return a / b;
}

int main() {
    int x = 10, y = 2;
    printf("Result: %d\n", divide(x, y));
    y = 0;
    printf("Result: %d\n", divide(x, y));
    // This will trigger assert failure
    return 0;
}
```

---

complex.h: Complex Number Arithmetic

`I`: represents the imaginary unit ($\sqrt{-1}$)
`cabs(x)`: returns the magnitude (absolute value) of `x`
`carg(x)`: returns the phase angle (argument) of `x` in radians
`cimag(x)`: extracts the imaginary part of `x`
`creal(x)`: extracts the real part of `x`
`cexp(x)`: computes e^x
`clog(x)`: computes the natural logarithm of `x`
`cpow(x, y)`: computes `x` raised to the power `y`
`csqrt(x)`: computes the square root of `x`
`ccos(x)`: computes the cosine of `x`
`ccosf(x)`: computes the cosine of `x` (float variant)
`ccosl(x)`: computes the cosine of `x` (long double variant)
`csin(x)`: computes the sine of `x`
`csinf(x)`: computes the sine of `x` (float variant)

`csinl(x)`: computes the sine of `x` (long double variant)
`ctan(x)`: computes the tangent of `x`
`ccosh(x)`: computes the hyperbolic cosine of `x`
`csinh(x)`: computes the hyperbolic sine of `x`
`ctanh(x)`: computes the hyperbolic tangent of `x`

- The `complex.h` header:
  - Introduces support for complex number arithmetic
  - Defines the complex type
  - Provides mathematical operations for working with complex numbers
- This library is essential for numerical computing, engineering, and scientific applications

EX: Demonstrates addition, magnitude calculation (cabs()), and computing the phase angle (carg())
- The predefined constant `I` represents the imaginary unit, simplifying notation

- Outputs a complex number, its magnitude (distance from the origin), and its phase angle (direction in a 2D plane)

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

int main() {
    double complex z1 = 1.0 + 2.0 * I;
    double complex z2 = 3.0 - 4.0 * I;
    double complex sum = z1 + z2;

    printf("z1 + z2 = %.2f + %.2fi\n",
        creal(sum), cimag(sum));
    printf("|z1| = %.2f\n", cabs(z1));
    printf("arg(z1) = %.2f radians\n",
        carg(z1));
    return 0;
}
```

---

ctype.h: Character Classification & Conversion

`isalnum(c)`: checks if `c` is a letter or digit
`isalpha(c)`: checks if `c` is a letter
`isascii(c)`: checks if `c` is a valid ASCII character
`isblank(c)`: checks if `c` is a space or tab
`iscntrl(c)`: checks if `c` is a control character
`isdigit(c)`: checks if `c` is a digit (0-9)
`isgraph(c)`: checks if `c` is printable (excluding space)
`islower(c)`: checks if `c` is a lowercase letter
`isprint(c)`: checks if `c` is printable (including space)
`ispunct(c)`: checks if `c` is a punctuation character
`isspace(c)`: checks if `c` is a whitespace character
`isupper(c)`: checks if `c` is an uppercase letter
`isxdigit(c)`: checks if `c` is a hexadecimal digit (0-9, A-F / a-f)
`tolower(c)`: converts uppercase `c` to lowercase

`toupper(c)`: converts lowercase `c` to uppercase
- The `ctype.h` header:
  - Provides functions for character classification and conversion
  - Helps to determine whether a character is a letter, digit, whitespace, or punctuation
  - Allows for case conversion
  - Takes `int` arguments because characters are stored as integer ASCII values and return a nonzero value if the condition is true
- Functions like `isalpha()` may be faster than manual checks, as they are often implemented using lookup tables
  - Especially useful when processing user input, validating text, or implementing parsers, as in the following example

EX: Outputs: Letter, Not a digit, a is lowercase

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

int main() {
    char ch = 'A';
    if (isalpha(ch))
        printf("Letter, ");
    if (isdigit(ch))
        printf("Digit, ");
    else
        printf("Not a digit, ");
    printf("%c in lowercase\n",
        tolower(ch));
    return 0;
}
```

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J Ma

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