C Reference Card (ANSI)

Program Structure/Functions

type fnc(type1, ...);	function prototype
type name;	variable declaration
int main(void) {	main routine
declarations	local variable declarations
statements	
}	
type fnc(arg1, ...) {	function definition
declarations	local variable declarations
statements	
return value;	
}	
/* */	comments
int main(int argc, char *argv[])	main with args
exit(err);	terminate execution

C Preprocessor

include library file	#include <filename>
include user file	#include "filename"
replacement text	#define name text
replacement macro	#define name(var) text

Example: #define max(A,B) ((A)>(B) ? (A) : (B))

undefine	#undef name
quoted string in replace	#

Example: #define msg(A) printf("%s = %d", #A, (A))

concatenate args into string	##
conditional execution	#if, #else, #elif, #endif
is name defined, not defined?	#ifdef, #ifndef
name defined?	defined(name)
line continuation char	\

Data Types/Declarations

character (1 byte)	char
integer	int
real number (single, double precision)	float, double
short (16 bit integer)	short
long (32 bit integer)	long
double long (64 bit integer)	long long
positive or negative	signed
nonnegative modulo 2^n	unsigned
pointer to int, float, ...	int*, float*, ...
enumeration constant	enum tag {name1=value1, ...};

Constants

suffix: long, unsigned, float	65536L, -1U, 3.0F
exponential form	4.2e1
prefix: octal, hexadecimal	0, 0x or 0X

Example: 031 is 25, 0x31 is 49 decimal

character constant (char, octal, hex)	'a', '\000', '\xhh'
newline, cr, tab, backspace	\n, \r, \t, \b
special characters	\\, \?, \', \"
string constant (ends with '\0')	"abc...def"

Pointers, Arrays & Structures

declare pointer to type	type *name;
declare function returning pointer to type	type *f();
declare pointer to function returning type	type (*pf)();
generic pointer type	void *
null pointer constant	NULL
object pointed to by pointer	*pointer
address of object name	&name
array	name[dim]
multi-dim array	name[dim1][dim2]...

Structures

struct tag {   structure template
  declarations   declaration of members
};

create structure	struct tag name
member of structure from template	name.member
member of pointed-to structure	pointer->member

Example: (*p).x and p->x are the same

single object, multiple possible types	union
int field with k bits	unsigned member: k;

Operators (grouped by precedence)

struct member operator	name.member
struct member through pointer	pointer->member
increment, decrement	++, --
plus, minus, logical not, bitwise not	+, -, !, ~
indirection via pointer, address of object	*pointer, &name
cast expression to type	(type) expr
size of an object	sizeof
multiply, divide, modulus (remainder)	*, /, %
add, subtract	+, -
left, right shift [bit ops]	<<, >>
relational comparisons	>, >=, <, <=

Flow of Control

statement terminator	;
block delimiters	{ }
exit from switch, while, do, for	break;
next iteration of while, do, for	continue;
go to	goto label;
label	label: statement
return value from function	return expr

Flow Constructions

if statement	if (expr1) statement1
	else if (expr2) statement2
	else statement3
while statement	while (expr)
	statement
for statement	for (expr1; expr2; expr3)
	statement
do statement	do statement
	while(expr);
switch statement	switch (expr) {
	case const1: statement1 break;
	case const2: statement2 break;
	default: statement
	}

ANSI Standard Libraries

<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>

Character Class Tests <ctype.h>

alphanumeric?	isalnum(c)
alphabetic?	isalpha(c)
control character?	iscntrl(c)
decimal digit?	isdigit(c)
printing character (not incl space)?	isgraph(c)
lower case letter?	islower(c)
printing character (incl space)?	isprint(c)
printing char except space, letter, digit?	ispunct(c)
space, formfeed, newline, cr, tab, vtab?	isspace(c)
upper case letter?	isupper(c)
hexadecimal digit?	isxdigit(c)
convert to lower case	tolower(c)
convert to upper case	toupper(c)

String Operations <string.h>

Standard C Programmers Quick Reference

JL Elias

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