

SL NO.	FUNCTION	SYS INCLUDE FILE	FUNCTION PROTOTYPE	DESCRIPTION
1	abort	stdlib.h	void abort(void);	Stops a program abnormally.
2	abs	stdlib.h	int abs(int <i>n</i>);	Calculates the absolute value of an integer argument <i>n</i> .
3	acos	math.h	double acos(double <i>x</i>);	Calculates the arc cosine of <i>x</i> .
4	asctime	time.h	char *asctime(const struct tm * <i>time</i>);	Converts the <i>time</i> that is stored as a structure to a character string.
5	asctime_r	time.h	char *asctime_r(const struct tm * <i>tm</i> , char * <i>buf</i>);	Converts <i>tm</i> that is stored as a structure to a character string. (Restartable version of asctime.)
6	asin	math.h	double asin(double <i>x</i>);	Calculates the arc sine of <i>x</i> .
7	assert	assert.h	void assert(int <i>expression</i>);	Prints a diagnostic message and ends the program if the expression is false.
8	atan	math.h	double atan(double <i>x</i>);	Calculates the arc tangent of <i>x</i> .
9	atan2	math.h	double atan2(double <i>y</i> , double <i>x</i>);	Calculates the arc tangent of <i>y/x</i> .
10	atexit	stdlib.h	int atexit(void (* <i>func</i>)(void));	Registers a function to be called at normal termination.
11	atof	stdlib.h	double atof(const char * <i>string</i>);	Converts <i>string</i> to a double-precision floating-point value.
12	atoi	stdlib.h	int atoi(const char * <i>string</i>);	Converts <i>string</i> to an integer.
13	atol	stdlib.h	long int atol(const char * <i>string</i>);	Converts <i>string</i> to a long integer.
14	bsearch	stdlib.h	void *bsearch(const void * <i>key</i> , const void * <i>base</i> , size_t <i>num</i> , size_t <i>size</i> , int (* <i>compare</i>)(const void * <i>element1</i> , const void * <i>element2</i>));	Performs a binary search on an array of <i>num</i> elements, each of size <i>size</i> bytes. The array must be sorted in ascending order by the function pointed to by <i>compare</i> .
15	btowc	stdio.h	wint_t btowc(int <i>c</i>);	Determines whether <i>c</i> constitutes a valid multibyte character in the initial shift state.
16		wchar.h		
17	calloc	stdlib.h	void *calloc(size_t <i>num</i> , size_t <i>size</i>);	Reserves storage space for an array of <i>num</i> elements, each of size <i>size</i> , and initializes the values of all elements to 0.
18	catclose	nl_types.h	int catclose (nl_catd catd);	Closes a previously opened message catalog.
19	catgets	nl_types.h	char *catgets(nl_catd catd, int set_id, int msg_id, const char *s);	Retrieves a message from an open message catalog.
20	catopen	nl_types.h	nl_catd catopen (const char * <i>name</i> , int <i>oflag</i>);	Opens a message catalog, which must be done before a message can be retrieved.
21	ceil	math.h	double ceil(double <i>x</i>);	Calculates the double value representing the smallest integer that is greater than or equal to <i>x</i> .
22	clearerr	stdio.h	void clearerr(FILE * <i>stream</i>);	Resets the error indicators and the end-of-file indicator for <i>stream</i> .
23	clock	time.h	clock_t clock(void);	Returns the processor time that has elapsed since the job was started.
24	cos	math.h	double cos(double <i>x</i>);	Calculates the cosine of <i>x</i> .
25	cosh	math.h	double cosh(double <i>x</i>);	Calculates the hyperbolic cosine of <i>x</i> .
26	ctime	time.h	char *ctime(const time_t * <i>time</i>);	Converts <i>time</i> to a character string.
27	ctime64	time.h	char *ctime64(const time64_t * <i>time</i>);	Converts <i>time</i> to a character string.
28	ctime_r	time.h	char *ctime_r(const time_t * <i>time</i> , char * <i>buf</i>);	Converts <i>time</i> to a character string. (Restartable version of ctime.)
29	ctime64_r	time.h	char *ctime64_r(const time64_t * <i>time</i> , char * <i>buf</i>);	Converts <i>time</i> to a character string. (Restartable version of ctime64.)
30	difftime	time.h	double difftime(time_t <i>time2</i> , time_t <i>time1</i>);	Computes the difference between <i>time2</i> and <i>time1</i> .
31	difftime64	time.h	double difftime64(time64_t <i>time2</i> , time64_t <i>time1</i>);	Computes the difference between <i>time2</i> and <i>time1</i> .
32	div	stdlib.h	div_t div(int <i>numerator</i> , int <i>denominator</i>);	Calculates the quotient and remainder of the division of <i>numerator</i> by <i>denominator</i> .
33	erf	math.h	double erf(double <i>x</i>);	Calculates the error function of <i>x</i> .
34	erfc	math.h	double erfc(double <i>x</i>);	Calculates the error function for large values of <i>x</i> .
35	exit	stdlib.h	void exit(int <i>status</i>);	Ends a program normally.
36	exp	math.h	double exp(double <i>x</i>);	Calculates the exponential function of a floating-point argument <i>x</i> .
37	fabs	math.h	double fabs(double <i>x</i>);	Calculates the absolute value of a floating-point argument <i>x</i> .
38	fclose	stdio.h	int fclose(FILE * <i>stream</i>);	Closes the specified <i>stream</i> .
39	fdopen	stdio.h	FILE *fdopen(int <i>handle</i> , const char * <i>type</i>);	Associates an input or output stream with the file identified by <i>handle</i> .

40	feof	stdio.h	int feof(FILE *stream);	Tests whether the end-of-file flag is set for a given <i>stream</i> .
41	ferror	stdio.h	int ferror(FILE *stream);	Tests for an error indicator in reading from or writing to <i>stream</i> .
42	fflush	stdio.h	int fflush(FILE *stream);	Writes the contents of the buffer associated with the output <i>stream</i> .
43	fgetc	stdio.h	int fgetc(FILE *stream);	Reads a single unsigned character from the input <i>stream</i> .
44	fgetpos	stdio.h	int fgetpos(FILE *stream, fpos_t *pos);	Stores the current position of the file pointer associated with <i>stream</i> into the object pointed to by <i>pos</i> .
45	fgets	stdio.h	char *fgets(char *string, int n, FILE *stream);	Reads a string from the input <i>stream</i> .
46	fgetwc	stdio.h	wint_t fgetwc(FILE *stream);	Reads the next multibyte character from the input <i>stream</i> pointed to by <i>stream</i> .
47	fgetws	stdio.h	wchar_t *fgetws(wchar_t *wcs, int n, FILE *stream);	Reads wide characters from the stream into the array pointed to by <i>wcs</i> .
48	fgetc	stdio.h	int fgetc(FILE *stream);	Determines the file handle currently associated with <i>stream</i> .
49	filenos	stdio.h	int fileno(FILE *stream);	Calculates the floating-point value representing the largest integer less than or equal to <i>x</i> .
50	floor	math.h	double floor(double x);	Calculates the floating-point remainder of <i>x/y</i> .
51	fmod	math.h	double fmod(double x, double y);	Opens the specified file.
52	fopen	stdio.h	FILE *fopen(const char *filename, const char *mode);	Formats and prints characters and values to the output <i>stream</i> .
53	fprintf	stdio.h	int fprintf(FILE *stream, const char *format-string, arg-list);	Prints a character to the output <i>stream</i> .
54	fputc	stdio.h	int fputc(int c, FILE *stream);	Copies a string to the output <i>stream</i> .
55	fputs	stdio.h	int fputs(const char *string, FILE *stream);	Converts the wide character <i>wc</i> to a multibyte character and writes it to the output <i>stream</i> .
56	fputwc	stdio.h	wint_t fputwc(wchar_t wc, FILE *stream);	Converts the wide-character string <i>wcs</i> to a multibyte-character string and writes it.
57	fputws	stdio.h	int fputws(const wchar_t *wcs, FILE *stream);	Reads up to <i>count</i> items of <i>size</i> length from the input <i>stream</i> , and stores them in <i>buffer</i> .
58	fread	stdio.h	size_t fread(void *buffer, size_t size, size_t count, FILE *stream);	Frees a block of storage.
59	free	stdlib.h	void free(void *ptr);	Closes <i>stream</i> , and reassigns it to the file specified.
60	freopen	stdio.h	FILE *freopen(const char *filename, const char *mode, FILE *stream);	Separates a floating-point number into its mantissa and exponent.
61	frexp	math.h	double frexp(double x, int *exp_ptr);	Reads data from <i>stream</i> into locations given by <i>arg-list</i> .
62	fscanf	stdio.h	int fscanf(FILE *stream, const char *format-string, arg-list);	Changes the current file position associated with <i>stream</i> to a new location.
63	fseek	stdio.h	int fseek(FILE *stream, long int offset, int origin);	Moves the current file position to a new location determined by <i>pos</i> .
64	fsetpos	stdio.h	int fsetpos(FILE *stream, const fpos_t *pos);	Gets the current position of the file pointer.
65	ftell	stdio.h	long int ftell(FILE *stream);	Determines the orientation of the stream pointed to by <i>stream</i> .
66	fwide	stdio.h	int fwide(FILE *stream, int mode);	Writes output to the stream pointed to by <i>stream</i> .
67	fwprintf	stdio.h	int fwprintf(FILE *stream, const char *format-string, arg-list);	Writes up to <i>count</i> items of <i>size</i> length from <i>buffer</i> to <i>stream</i> .
68	fwrite	stdio.h	size_t fwrite(const void *buffer, size_t size, size_t count, FILE *stream);	Reads input from the stream pointed to by <i>stream</i> .
69	fwscanf	stdio.h	int fwscanf(FILE *stream, const char *format-string, arg-list);	Computes the Gamma Function
70	gamma	math.h	double gamma(double x);	Reads a single character from the input <i>stream</i> .
71	getc	stdio.h	int getc(FILE *stream);	Reads a single character from <i>stdin</i> .
72	getchar	stdio.h	int getchar(void);	Searches environment variables for <i>varname</i> .
73	getenv	stdlib.h	char *getenv(const char *varname);	Reads a string from <i>stdin</i> , and stores it in <i>buffer</i> .
74	gets	stdio.h	char *gets(char *buffer);	Reads the next multibyte character from <i>stream</i> , converts it to a wide character and advances the
75	getwc	stdio.h	wint_t getwc(FILE *stream);	
76	getws	stdio.h	wchar_t *getws(wchar_t *wcs, int n, FILE *stream);	

83	getwchar	wchar.h	wint_t getwchar(void);	Reads the next multibyte character from stdin, converts it to a wide character, and advances the associated file position indicator for stdin.
84	gmtime	time.h	struct tm *gmtime(const time_t *time);	Converts a <i>time</i> value to a structure of type tm.
85	gmtime64	time.h	struct tm *gmtime64(const time64_t *time);	Converts a <i>time</i> value to a structure of type tm.
86	gmtime_r	time.h	struct tm *gmtime_r(const time_t *time, struct tm *result);	Converts a <i>time</i> value to a structure of type tm. (Restartable version of gmtime.)
87	gmtime64_r	time.h	struct tm *gmtime64_r(const time64_t *time, struct tm *result);	Converts a <i>time</i> value to a structure of type tm. (Restartable version of gmtime64.)
88	hypot	math.h	double hypot(double side1, double side2);	Calculates the hypotenuse of a right-angled triangle with sides of length <i>side1</i> and <i>side2</i> .
89	isalnum	ctype.h	int isalnum(int c);	Tests if <i>c</i> is alphanumeric.
90	isalpha	ctype.h	int isalpha(int c);	Tests if <i>c</i> is alphabetic.
91	isascii	ctype.h	int isascii(int c);	Tests if <i>c</i> is within the 7-bit US-ASCII range.
92	isblank	ctype.h	int isblank(int c);	Tests if <i>c</i> is a blank or tab character.
93	iscntrl	ctype.h	int iscntrl(int c);	Tests if <i>c</i> is a control character.
94	isdigit	ctype.h	int isdigit(int c);	Tests if <i>c</i> is a decimal digit.
95	isgraph	ctype.h	int isgraph(int c);	Tests if <i>c</i> is a printable character excluding the space.
96	islower	ctype.h	int islower(int c);	Tests if <i>c</i> is a lowercase letter.
97	isprint	ctype.h	int isprint(int c);	Tests if <i>c</i> is a printable character including the space.
98	ispunct	ctype.h	int ispunct(int c);	Tests if <i>c</i> is a punctuation character.
99	isspace	ctype.h	int isspace(int c);	Tests if <i>c</i> is a whitespace character.
100	isupper	ctype.h	int isupper(int c);	Tests if <i>c</i> is an uppercase letter.
101	iswalnum	wctype.h	int iswalnum(wint_t wc);	Checks for any alphanumeric wide character.
102	iswalpha	wctype.h	int iswalpha(wint_t wc);	Checks for any alphabetic wide character.
103	iswblank	wctype.h	int iswblank(wint_t wc);	Checks for any blank or tab wide character.
104	iswcntrl	wctype.h	int iswcntrl(wint_t wc);	Tests for any control wide character.
105	iswctype	wctype.h	int iswctype(wint_t wc, wctype_t wc_prop);	Determines whether or not the wide character <i>wc</i> has the property <i>wc_prop</i> .
106	iswdigit	wctype.h	int iswdigit(wint_t wc);	Checks for any decimal-digit wide character.
107	iswgraph	wctype.h	int iswgraph(wint_t wc);	Checks for any printing wide character except for the wide-character space.
108	iswlower	wctype.h	int iswlower(wint_t wc);	Checks for any lowercase wide character.
109	iswprint	wctype.h	int iswprint(wint_t wc);	Checks for any printing wide character.
110	iswpunct	wctype.h	int iswpunct(wint_t wc);	Test for a wide non-alphanumeric, non-space character.
111	iswspace	wctype.h	int iswspace(wint_t wc);	Checks for any wide character that corresponds to an implementation-defined set of wide characters for which <i>iswalnum</i> is false.
112	iswupper	wctype.h	int iswupper(wint_t wc);	Checks for any uppercase wide character.
113	iswxdigit	wctype.h	int iswxdigit(wint_t wc);	Checks for any hexadecimal digit character.
114	isxdigit	wctype.h	int isxdigit(int c);	Tests if <i>c</i> is a hexadecimal digit.
115	j0	math.h	double j0(double x);	Calculates the Bessel function value of the first kind of order 0.
116	j1	math.h	double j1(double x);	Calculates the Bessel function value of the first kind of order 1.
117	jn	math.h	double jn(int n, double x);	Calculates the Bessel function value of the first kind of order <i>n</i> .
118	labs	stdlib.h	long int labs(long int n);	Calculates the absolute value of <i>n</i> .
119	ldexp	math.h	double ldexp(double x, int exp);	Returns the value of <i>x</i> multiplied by (2 to the power of <i>exp</i>).
120	ldiv	stdlib.h	ldiv_t ldiv(long int numerator, long int denominator);	Calculates the quotient and remainder of <i>numerator</i> / <i>denominator</i> .
121	localeconv	locale.h	struct lconv *localeconv(void);	Formats numeric quantities in struct lconv according to the current locale.
122	localtime	time.h	struct tm *localtime(const time_t *timeval);	Converts <i>timeval</i> to a structure of type tm.
123	localtime64	time.h	struct tm *localtime64(const time64_t *timeval);	Converts <i>timeval</i> to a structure of type tm.
124	localtime_r	time.h	struct tm *localtime_r(const time_t *timeval, struct tm *result);	Converts a <i>time</i> value to a structure of type <i>tm</i> . (Restartable version of localtime.)

125	localtime64_r	time.h	struct tm *localtime64_r (const time64_t *timeval, struct tm *result);	Converts a <i>time</i> value to a structure of type <i>tm</i> . (Restartable version of localtime64.)
126	log	math.h	double log(double x);	Calculates the natural logarithm of <i>x</i> .
127	log10	math.h	double log10(double x);	Calculates the base 10 logarithm of <i>x</i> .
128	longjmp	setjmp.h	void longjmp(jmp_buf env, int value);	Restores a stack environment previously set in <i>env</i> by the setjmp function.
129	malloc	stdlib.h	void *malloc(size_t size);	Reserves a block of storage.
130	mblen	stdlib.h	int mblen(const char *string, size_t n);	Determines the length of a multibyte character <i>string</i> .
131	mbrlen	wchar.h	int mbrlen (const char *s, size_t n, mbstate_t *ps);	Determines the length of a multibyte character. (Restartable version of mblen.)
132	mbrtowc	wchar.h	int mbrtowc (wchar_t *pwc, const char *s, size_t n, mbstate_t *ps);	Convert a multibyte character to a wide character (Restartable version of mbrtowc.)
133	mbsinit	wchar.h	int mbsinit (const mbstate_t *ps);	Test state object <i>*ps</i> for initial state.
134	mbsrtowcs	wchar.h	size_t mbsrtowc (wchar_t *dst, const char **src, size_t len, mbstate_t *ps);	Convert multibyte string to a wide character string. (Restartable version of mbsrtowcs.)
135	mbstowcs	stdlib.h	size_t mbstowcs(wchar_t *pwc, const char *string, size_t n);	Converts the multibyte characters in <i>string</i> to their corresponding wchar_t codes, and stores not more than <i>n</i> codes in <i>pwc</i> .
136	mbtowc	stdlib.h	int mbtowc(wchar_t *pwc, const char *string, size_t n);	Stores the wchar_t code corresponding to the first <i>n</i> bytes of multibyte character <i>string</i> into the wchar_t character <i>pwc</i> .
137	memchr	string.h	void *memchr(const void *buf, int c, size_t count);	Searches the first <i>count</i> bytes of <i>buf</i> for the first occurrence of <i>c</i> converted to an unsigned character.
138	memcmp	string.h	int memcmp(const void *buf1, const void *buf2, size_t count);	Compares up to <i>count</i> bytes of <i>buf1</i> and <i>buf2</i> .
139	memcpy	string.h	void *memcpy(void *dest, const void *src, size_t count);	Copies <i>count</i> bytes of <i>src</i> to <i>dest</i> .
140	memmove	string.h	void *memmove(void *dest, const void *src, size_t count);	Copies <i>count</i> bytes of <i>src</i> to <i>dest</i> . Allows copying between objects that overlap.
141	memset	string.h	void *memset(void *dest, int c, size_t count);	Sets <i>count</i> bytes of <i>dest</i> to a value <i>c</i> .
142	mktime	time.h	time_t mktime(struct tm *time);	Converts local <i>time</i> into calendar time.
143	mktime64	time.h	time64_t mktime64(struct tm *time);	Converts local <i>time</i> into calendar time.
144	modf	math.h	double modf(double x, double *intptr);	Breaks down the floating-point value <i>x</i> into fractional and integral parts.
145	nextafter	math.h	double nextafter(double x, double y);	Calculates the next representable value after <i>x</i> in the direction of <i>y</i> .
146	nextafterl	math.h	long double nextafterl(long double x, long double y);	Calculates the next representable value after <i>x</i> in the direction of <i>y</i> .
147	nexttoward	math.h	double nexttoward(double x, long double y);	Calculates the next representable value after <i>x</i> in the direction of <i>y</i> .
148	nexttowardl	math.h	long double nexttowardl(long double x, long double y);	Calculates the next representable value after <i>x</i> in the direction of <i>y</i> .
149	nl_langinfo	langinfo.h	char *nl_langinfo(nl_item item);	Retrieve from the current locale the string that describes the requested information specified by <i>item</i> .
150	perror	stdio.h	void perror(const char *string);	Prints an error message to stderr.
151	pow	math.h	double pow(double x, double y);	Calculates the value <i>x</i> to the power <i>y</i> .
152	printf	stdio.h	int printf(const char *format-string, arg-list);	Formats and prints characters and values to stdout.
153	putc	stdio.h	int putc(int c, FILE *stream);	Prints <i>c</i> to the output <i>stream</i> .
154	putchar	stdio.h	int putchar(int c);	Prints <i>c</i> to stdout.
155	putenv	stdlib.h	int *putenv(const char *varname);	Sets the value of an environment variable by altering an existing variable or creating a new one.

156	puts	stdio.h	int puts(const char <i>*string</i>);	Prints a string to stdout.
157	putwc6	stdio.h	wint_t	Converts the wide character <i>wc</i> to a multibyte character, and writes it to the stream at the
158	putwchar6	wchar.h	putwchar(wchar_t <i>wc</i> , wint_t	Converts the wide character <i>wc</i> to a multibyte character and writes it to stdout.
159	qsort	stdlib.h	putwchar(wchar_t <i>wc</i>); void qsort(void <i>*base</i> , size_t <i>num</i> , size_t <i>width</i> , int(<i>*compare</i>)(const void <i>*element1</i> , const void <i>*element2</i>));	Performs a quick sort of an array of <i>num</i> elements, each of <i>width</i> bytes in size.
160	quantexpd32	math.h	_Decimal32 quantized32(_Decimal32 <i>x</i> , _Decimal32 <i>y</i>);	Compute the quantum exponent of a single-precision decimal floating-point value.
161	quantexpd64	math.h	_Decimal64 quantized64(_Decimal64 <i>x</i> , _Decimal64 <i>y</i>);	Compute the quantum exponent of a double-precision decimal floating-point value.
162	quantexpd128	math.h	_Decimal128 quantized128(_Decimal128 <i>x</i> , _Decimal128 <i>y</i>);	Compute the quantum exponent of a quad-precision decimal floating-point value.
163	quantized32	math.h	int quantexpd32(_Decimal32 <i>x</i>);	Set the quantum exponent of a single-precision decimal floating-point value to the quantum exponent of another single-precision decimal floating-point value.
164	quantized64	math.h	int quantexpd64(_Decimal64 <i>x</i>);	Set the quantum exponent of a double-precision decimal floating-point value to the quantum exponent of another double-precision decimal floating-point value.
165	quantized128	math.h	int quantexpd128(_Decimal128 <i>x</i>);	Set the quantum exponent of a quad-precision decimal floating-point value to the quantum exponent of another quad-precision decimal floating-point value.
166	samequantumd32	math.h	__bool__ samequantumd32(_Decimal32 <i>x</i> , _Decimal32 <i>y</i>);	Determine if the quantum exponents of two single-precision decimal floating-point values are the same.
167	samequantumd64	math.h	__bool__ samequantumd64(_Decimal64 <i>x</i> , _Decimal64 <i>y</i>);	Determine if the quantum exponents of two double-precision decimal floating-point values are the same.
168	samequantumd128	math.h	__bool__ samequantumd128(_Decimal128 <i>x</i> , _Decimal128 <i>y</i>);	Determine if the quantum exponents of two quad-precision decimal floating-point values are the same.
169	raise	signal.h	int raise(int <i>sig</i>);	Sends the signal <i>sig</i> to the running program.
170	rand	stdlib.h	int rand(void);	Returns a pseudo-random integer.
171	rand_r	stdlib.h	int rand_r(void);	Returns a pseudo-random integer. (Restartable version)
172	realloc	stdlib.h	void *realloc(void <i>*ptr</i> , size_t <i>size</i>);	Changes the size of a previously reserved storage block.
173	regcomp	regex.h	int regcomp(regex_t <i>*preg</i> , const char <i>*pattern</i> , int <i>cflags</i>);	Compiles the source regular expression pointed to by <i>pattern</i> into an executable version and stores it in the location pointed to by <i>preg</i> .
174	regerror	regex.h	size_t regerror(int <i>errcode</i> , const regex_t <i>*preg</i> , char <i>*errbuf</i> , size_t <i>errbuf_size</i>);	Finds the description for the error code <i>errcode</i> for the regular expression <i>preg</i> .
175	regexexec	regex.h	int regexexec(const regex_t <i>*preg</i> , const char <i>*string</i> , size_t <i>nmatch</i> , regmatch_t <i>*pmatch</i> , int <i>offlags</i>);	Compares the null-ended string <i>string</i> against the compiled regular expression <i>preg</i> to find a match between the two.
176	regfree	regex.h	void regfree(regex_t <i>*preg</i>);	Frees any memory that was allocated by regcomp to implement the regular expression <i>preg</i> .
177	remove	stdio.h	int remove(const char <i>*filename</i>);	Deletes the file specified by <i>filename</i> .
178	rename	stdio.h	int rename(const char <i>*oldname</i> , const char <i>*newname</i>);	Renames the specified file.
179	rewind	stdio.h	void rewind(FILE <i>*stream</i>);	Repositions the file pointer associated with <i>stream</i> to the beginning of the file.
180	scanf	stdio.h	int scanf(const char <i>*format-string</i> , arg-list);	Reads data from stdin into locations given by <i>arg-list</i> .
181	setbuf	stdio.h	void setbuf(FILE <i>*stream</i> , char <i>*buffer</i>);	Controls buffering for <i>stream</i> .
182	setjmp	setjmp.h	int setjmp(imp_buf <i>env</i>);	Saves a stack environment that can be subsequently restored by longjmp.
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184	setlocale	locale.h	char *setlocale(int <i>category</i> , const char * <i>locale</i>);	Changes or queries variables defined in the <i>locale</i> .
185	setvbuf	stdio.h	int setvbuf(FILE * <i>stream</i> , char * <i>buf</i> , int <i>type</i> , size_t <i>size</i>);	Controls buffering and buffer <i>size</i> for <i>stream</i> .
186	signal	signal.h	void(*signal (int <i>sig</i> , void(* <i>func</i>)(int))) (int);	Registers <i>func</i> as a signal handler for the signal <i>sig</i> .
187	sin	math.h	double sin(double <i>x</i>);	Calculates the sine of <i>x</i> .
188	sinh	math.h	double sinh(double <i>x</i>);	Calculates the hyperbolic sine of <i>x</i> .
189	snprintf	stdio.h	int snprintf(char * <i>outbuf</i> , size_t <i>n</i> , const char*, ...)	Same as <i>sprintf</i> except that the function will stop after <i>n</i> characters have been written to <i>outbuf</i> .
190	sprintf	stdio.h	int sprintf(char * <i>buffer</i> , const char * <i>format</i> - <i>string</i> , <i>arg-list</i>);	Formats and stores characters and values in <i>buffer</i> .
191	sqrt	math.h	double sqrt(double <i>x</i>);	Calculates the square root of <i>x</i> .
192	srand	stdlib.h	void srand(unsigned int <i>seed</i>);	Sets the <i>seed</i> for the pseudo-random number generator.
193	sscanf	stdio.h	int sscanf(const char * <i>buffer</i> , const char * <i>format</i> , <i>arg-list</i>);	Reads data from <i>buffer</i> into the locations given by <i>arg-list</i> .
194	strcasecmp	strings.h	int strcasecmp(const char * <i>string1</i> , const char * <i>string2</i>);	Compares strings without case sensitivity.
195	strcat	string.h	char *strcat(char * <i>string1</i> , const char * <i>string2</i>);	Concatenates <i>string2</i> to <i>string1</i> .
196	strchr	string.h	char *strchr(const char * <i>string</i> , int <i>c</i>);	Locates the first occurrence of <i>c</i> in <i>string</i> .
197	strcmp	string.h	int strcmp(const char * <i>string1</i> , const char * <i>string2</i>);	Compares the value of <i>string1</i> to <i>string2</i> .
198	strcoll	string.h	int strcoll(const char * <i>string1</i> , const char * <i>string2</i>);	Compares two strings using the collating sequence in the current locale.
199	strcpy	string.h	char *strcpy(char * <i>string1</i> , const char * <i>string2</i>);	Copies <i>string2</i> into <i>string1</i> .
200	strcspn	string.h	size_t strcspn(const char * <i>string1</i> , const char * <i>string2</i>);	Returns the length of the initial substring of <i>string1</i> consisting of characters not contained in <i>string2</i> .
201	strerror	string.h	char *strerror(int <i>errnum</i>);	Maps the error number in <i>errnum</i> to an error message <i>string</i> .
202	strfmon4	wchar.h	int strfmon (char * <i>s</i> , size_t <i>maxsize</i> , const char * <i>format</i> , ...);	Converts monetary value to string.
203	strftime	time.h	size_t strftime (char * <i>dest</i> , size_t <i>maxsize</i> , const char * <i>format</i> , const struct tm * <i>timeptr</i>);	Stores characters in an array pointed to by <i>dest</i> , according to the string determined by <i>format</i> .
204	strlen	string.h	size_t strlen(const char * <i>string</i>);	Calculates the length of <i>string</i> .
205	strncasecmp	strings.h	int strncasecmp(const char * <i>string1</i> , const char * <i>string2</i> , size_t <i>count</i>);	Compares strings without case sensitivity.
206	strncat	string.h	char *strncat(char * <i>string1</i> , const char * <i>string2</i> , size_t <i>count</i>);	Concatenates up to <i>count</i> characters of <i>string2</i> to <i>string1</i> .
207	strncmp	string.h	int strncmp(const char * <i>string1</i> , const char * <i>string2</i> , size_t <i>count</i>);	Compares up to <i>count</i> characters of <i>string1</i> and <i>string2</i> .
208	strncpy	string.h	char *strncpy(char * <i>string1</i> , const char * <i>string2</i> , size_t <i>count</i>);	Copies up to <i>count</i> characters of <i>string2</i> to <i>string1</i> .
209	strpbrk	string.h	char *strpbrk(const char * <i>string1</i> , const char * <i>string2</i>);	Locates the first occurrence in <i>string1</i> of any character in <i>string2</i> .
210	strptime4	time.h	char *strptime (const char * <i>buf</i> , const char * <i>format</i> , struct tm * <i>tm</i>);	Date and time conversion
211	strrchr	string.h	char *strrchr(const char * <i>string</i> , int <i>c</i>);	Locates the last occurrence of <i>c</i> in <i>string</i> .
212	strspn	string.h	size_t strspn(const char * <i>string1</i> , const char * <i>string2</i>);	Returns the length of the initial substring of <i>string1</i> consisting of characters contained in <i>string2</i> .
213	strstr	string.h	char *strstr(const char * <i>string1</i> , const char * <i>string2</i>);	Returns a pointer to the first occurrence of <i>string2</i> in <i>string1</i> .

214	strtod	stdlib.h	double strtod(const char *nptr, char **endptr);	Converts <i>nptr</i> to a double precision value.
215	strtod32	stdlib.h	_Decimal32 strtod32(const char *nptr, char **endptr);	Converts <i>nptr</i> to a single-precision decimal floating-point value.
216	strtod64	stdlib.h	_Decimal64 strtod64(const char *nptr, char **endptr);	Converts <i>nptr</i> to a double-precision decimal floating-point value.
217	strtod128	stdlib.h	_Decimal128 strtod128(const char *nptr, char **endptr);	Converts <i>nptr</i> to a quad-precision decimal floating-point value.
218	strtof	stdlib.h	float strtof(const char *nptr, char **endptr);	Converts <i>nptr</i> to a float value.
219	strtok	string.h	char *strtok(char *string1, const char *string2);	Locates the next token in <i>string1</i> delimited by the next character in <i>string2</i> .
220	strtok_r	string.h	char *strtok_r(char *string, const char *seps, char **lasts);	Locates the next token in <i>string</i> delimited by the next character in <i>seps</i> . (Restartable version of <i>strtok</i> .)
221	strtol	stdlib.h	long int strtol(const char *nptr, char **endptr, int base);	Converts <i>nptr</i> to a signed long integer.
222	strtold	stdlib.h	long double strtold(const char *nptr, char **endptr);	Converts <i>nptr</i> to a long double value.
223	strtoul	stdlib.h	unsigned long int strtoul(const char *string1, char **string2, int base);	Converts <i>string1</i> to an unsigned long integer.
224	strxfrm	string.h	size_t strxfrm(char *string1, const char *string2, size_t count);	Converts <i>string2</i> and places the result in <i>string1</i> . The conversion is determined by the program's current locale.
225	swprintf	wchar.h	int swprintf(wchar_t *wcsbuffer, size_t n, const wchar_t *format, arg-list);	Formats and stores a series of wide characters and values into the wide-character buffer <i>wcsbuffer</i> .
226	swscanf	wchar.h	int swscanf(const wchar_t *buffer, const wchar_t *format, arg-list);	Reads data from <i>buffer</i> into the locations given by <i>arg-list</i> .
227	system	stdlib.h	int system(const char *string);	Passes <i>string</i> to the system command analyzer.
228	tan	math.h	double tan(double x);	Calculates the tangent of <i>x</i> .
229	tanh	math.h	double tanh(double x);	Calculates the hyperbolic tangent of <i>x</i> .
230	time	time.h	time_t time(time_t *timeptr);	Returns the current calendar time.
231	time64	time.h	time64_t time64(time64_t *timeptr);	Returns the current calendar time.
232	tmpfile	stdio.h	FILE *tmpfile(void);	Creates a temporary binary file and opens it.
233	tmpnam	stdio.h	char *tmpnam(char *string);	Generates a temporary file name.
234	toascii	ctype.h	int toascii(int c);	Converts <i>c</i> to a character in the 7-bit US-ASCII character set.
235	tolower	ctype.h	int tolower(int c);	Converts <i>c</i> to lowercase.
236	toupper	ctype.h	int toupper(int c);	Converts <i>c</i> to uppercase.
237	towctrans	wctype.h	wint_t towctrans(wint_t wc, wctrans_t desc);	Translates the wide character <i>wc</i> based on the mapping described by <i>desc</i> .
238	tolower4	wctype.h	wint_t tolower(wint_t wc);	Converts uppercase letter to lowercase letter.
239	toupper4	wctype.h	wint_t toupper(wint_t wc);	Converts lowercase letter to uppercase letter.
240	ungetc1	stdio.h	int ungetc(int c, FILE *stream);	Pushes <i>c</i> back onto the input <i>stream</i> .
241	ungetwc6	stdio.h	wint_t ungetwc(wint_t wc, FILE *stream);	Pushes the wide character <i>wc</i> back onto the input <i>stream</i> .
242	va_arg	stdarg.h	void *va_arg(va_list arg_ptr, var_type);	Returns the value of one argument and modifies <i>arg_ptr</i> to point to the next argument.
243	va_copy	stdarg.h	void va_copy(va_list dest, va_list src);	Initializes <i>dest</i> as a copy of <i>src</i> .
244	va_end	stdarg.h	void va_end(va_list arg_ptr);	Facilitates normal return from variable argument list processing.
245	va_start	stdarg.h	void va_start(va_list arg_ptr, variable_name);	Initializes <i>arg_ptr</i> for subsequent use by <i>va_arg</i> and <i>va_end</i> .
246	vfprintf	stdio.h stdarg.h	int vfprintf(FILE *stream, const char *format, va_list arg_ptr);	Formats and prints characters to the output <i>stream</i> using a variable number of arguments.
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248	vfscanf	stdio.h stdarg.h	int vfscanf(FILE *stream, const char *format, va_list arg_ptr):	Reads data from a specified stream into locations given by a variable number of arguments.
249	vfwprintf	stdarg.h	int	Equivalent to fwprintf, except that the variable argument list is replaced by <i>arg</i> .
250		stdio.h	vfwprintf(FILE *stream,	
251		wchar.h	const	
252	vfwscanf	stdio.h stdarg.h	int vfwscanf(FILE *stream, const wchar_t *format, va_list arg_ptr):	Reads wide data from a specified stream into locations given by a variable number of arguments.
253	vprintf	stdio.h stdarg.h	int vprintf(const char *format, va_list arg_ptr):	Formats and prints characters to stdout using a variable number of arguments.
254	vscanf	stdio.h stdarg.h	int vscanf(const char *format, va_list arg_ptr):	Reads data from stdin into locations given by a variable number of arguments.
255	vsprintf	stdio.h stdarg.h	int vsprintf(char *target- string, const char *format, va_list arg_ptr):	Formats and stores characters in a buffer using a variable number of arguments.
256	vsprintf	stdio.h	int vsnprintf(char *outbuf, size_t n, const char* va_list):	Same as vsprintf except that the function will stop after <i>n</i> characters have been written to outbuf.
257	vsscanf	stdio.h stdarg.h	int vsscanf(const char*buffer, const char *format, va_list arg_ptr):	Reads data from a buffer into locations given by a variable number of arguments.
258	vswprintf	stdarg.h	int	Formats and stores a series of wide characters and values in the buffer <i>wcsbuffer</i> .
259		wchar.h	vswprintf(wchar_t *wcsb,	
260	vswscanf	stdio.h wchar.h	int vswscanf(const wchar_t *buffer, const wchar_t *format, va_list arg_ptr):	Reads wide data from a buffer into locations given by a variable number of arguments.
261	vwprintf	stdarg.h	int vwprintf(const	Equivalent to wprintf, except that the variable argument list is replaced by <i>arg</i> .
262		wchar.h	wchar_t *format, va_list	
263	vwscanf	stdio.h wchar.h	int vwscanf(const wchar_t *format, va_list arg_ptr):	Reads wide data from stdin into locations given by a variable number of arguments.
264	wcrtomb4	wchar.h	int wcrtomb(char *s, wchar_t wchar, mbstate_t *nss):	Converts a wide character to a multibyte character. (Restartable version of wctomb.)
265	wscat	wchar.h	wchar_t *wscat(wchar_t *string 1, const wchar_t *string2):	Appends a copy of the string pointed to by <i>string2</i> to the end of the string pointed to by <i>string1</i> .
266	wcschr	wchar.h	wchar_t *wcschr(const wchar_t *string, wchar_t character):	Searches the wide-character string pointed to by <i>string</i> for the occurrence of <i>character</i> .
267	wscmp	wchar.h	int wscmp(const wchar_t *string1, const wchar_t *string2):	Compares two wide-character strings, <i>*string1</i> and <i>*string2</i> .
268	wscoll4	wchar.h	int wscoll(const wchar_t *wcs1, const wchar_t *wcs2):	Compares two wide-character strings using the collating sequence in the current locale.
269	wscpy	wchar.h	wchar_t *wscpy(wchar_t *string 1, const wchar_t *string2):	Copies the contents of <i>*string2</i> (including the ending wchar_t null character) into <i>*string1</i> .
270	wscspn	wchar.h	size_t wscspn(const wchar_t *string1, const wchar_t *string2);	Determines the number of wchar_t characters in the initial segment of the string pointed to by <i>*string1</i> that do not appear in the string pointed to by <i>*string2</i> .
271	wcsftime	wchar.h	size_t wcsftime(wchar_t *wdes t, size_t maxsize, const wchar_t *format, const struct tm *timeptr);	Converts the time and date specification in the <i>timeptr</i> structure into a wide-character string.
272	wcslen	wchar.h	size_t wcslen(const wchar_t *string);	Computes the number of wide-characters in the string pointed to by <i>string</i> .
273	wcslocaleconv	locale.h	struct wcsconv *wcslocaleconv(void);	Formats numeric quantities in struct <i>wcsconv</i> according to the current locale.
274	wcsncat	wchar.h	wchar_t *wcsncat(wchar_t *strin g1, const wchar_t *string2, size_t count):	Appends up to <i>count</i> wide characters from <i>string2</i> to the end of <i>string1</i> , and appends a wchar_t null character to the result.
275	wcsncmp	wchar.h	int wcsncmp(const wchar_t *string1, const wchar_t *string2, size_t count):	Compares up to <i>count</i> wide characters in <i>string1</i> to <i>string2</i> .

	wcsncpy	wchar.h	wchar_t *wcsncpy(wchar_t *string1, const wchar_t *string2, size_t count);	Copies up to <i>count</i> wide characters from <i>string2</i> to <i>string1</i> .
276	wcspbrk	wchar.h	wchar_t *wcspbrk(const wchar_t *string1, const wchar_t *string2);	Locates the first occurrence in the string pointed to by <i>string1</i> of any wide characters from the string pointed to by <i>string2</i> .
277	wcsptime	wchar.h	wchar_t *wcsptime (const wchar_t *buf, const wchar_t *format, struct tm *tm);	Date and time conversion. Equivalent to strptime(), except that it uses wide characters.
278	wcsrchr	wchar.h	wchar_t *wcsrchr(const wchar_t *string, wchar_t character);	Locates the last occurrence of <i>character</i> in the string pointed to by <i>string</i> .
279	wcsrtombs4	wchar.h	size_t wcsrtombs (char *dst, const wchar_t **src, size_t len, mbstate_t *ps);	Converts wide character string to multibyte string. (Restartable version of wcstombs.)
280	wcsspn	wchar.h	size_t wcsspn(const wchar_t *string1, const wchar_t *string2);	Computes the number of wide characters in the initial segment of the string pointed to by <i>string1</i> , which consists entirely of wide characters from the string pointed to by <i>string2</i> .
281	wcsstr	wchar.h	wchar_t *wcsstr(const wchar_t *wcs1, const wchar_t *wcs2);	Locates the first occurrence of <i>wcs2</i> in <i>wcs1</i> .
282	wctod	wchar.h	double wctod(const wchar_t *nptr, wchar_t **endnptr);	Converts the initial portion of the wide-character string pointed to by <i>nptr</i> to a double value.
283	wctod32	wchar.h	_Decimal32 wctod32(const wchar_t *nptr, wchar_t **endnptr);	Converts the initial portion of the wide-character string pointed to by <i>nptr</i> to a single-precision decimal floating-point value.
284	wctod64	wchar.h	_Decimal64 wctod64(const wchar_t *nptr, wchar_t **endnptr);	Converts the initial portion of the wide-character string pointed to by <i>nptr</i> to a double-precision decimal floating-point value.
285	wctod128	wchar.h	_Decimal128 wctod128(const wchar_t *nptr, wchar_t **endnptr);	Converts the initial portion of the wide-character string pointed to by <i>nptr</i> to a quad-precision decimal floating-point value.
286	wctof	wchar.h	float wctof(const wchar_t *nptr, wchar_t **endnptr);	Converts the initial portion of the wide-character string pointed to by <i>nptr</i> to a float value.
287	wctok	wchar.h	wchar_t *wctok(wchar_t *wcs1, const wchar_t *wcs2, wchar_t **ptr)	Breaks <i>wcs1</i> into a sequence of tokens, each of which is delimited by a wide character from the wide string pointed to by <i>wcs2</i> .
288	wctol	wchar.h	long int wctol(const wchar_t *nptr, wchar_t **endnptr, int base);	Converts the initial portion of the wide-character string pointed to by <i>nptr</i> to a long integer value.
289	wctold	wchar.h	long double wctold(const wchar_t *nptr, wchar_t **endnptr);	Converts the initial portion of the wide-character string pointed to by <i>nptr</i> to a long double value.
290	wctombs	stdlib.h	size_t wctombs(char *dest, const wchar_t *string, size_t count);	Converts the wchar_t <i>string</i> into a multibyte string <i>dest</i> .
291	wctoul	wchar.h	unsigned long int wctoul(const wchar_t *nptr, wchar_t **endnptr, int base);	Converts the initial portion of the wide-character string pointed to by <i>nptr</i> to an unsigned long integer value.
292	wcsxfrm4	wchar.h	size_t wcsxfrm (wchar_t *wcs1, const wchar_t *wcs2, size_t n);	Transforms a wide-character string to values which represent character collating weights and places the resulting wide-character string into an array.
293	wctob	stdarg.h	int wctob(wint_t wc);	Determines whether <i>wc</i> corresponds to a member of the <u>extended character set whose multibyte</u>
294	wctomb	stdlib.h	int wctomb(char *string, wchar_t character);	Converts the wchar_t value of <i>character</i> into a multibyte <i>string</i> .
295	wctrans	wctype.h	wctrans_t wctrans(const char *property);	Constructs a value with type wctrans_t that describes a mapping between wide characters identified by the <u>string argument property</u> .
296	wctype4	wchar.h	wctype_t wctype (const char *property);	Obtains handle for character property classification.
297	wcwidth	wchar.h	int wcwidth(const wchar_t *pwcs, size_t n);	Determine the display width of a wide character string.
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300	wmemchr	wchar.h	wchar_t *wmemchr(const wchar_t *s, wchar_t c, size_t n);	Locates the first occurrence of <i>c</i> in the initial <i>n</i> wide characters of the object pointed to by <i>s</i> .
301	wmemcmp	wchar.h	int wmemcmp(const wchar_t *s1, const wchar_t *s2, size_t n);	Compares the first <i>n</i> wide characters of the object pointed to by <i>s1</i> to the first <i>n</i> characters of the object pointed to by <i>s2</i> .
302	wmemcpy	wchar.h	wchar_t *wmemcpy(wchar_t *s1, const wchar_t *s2, size_t n);	Copies <i>n</i> wide characters from the object pointed to by <i>s2</i> to the object pointed to by <i>s1</i> .
303	wmemmove	wchar.h	wchar_t *wmemmove(wchar_t *s 1, const wchar_t *s2, size_t n);	Copies <i>n</i> wide characters from the object pointed to by <i>s2</i> to the object pointed to by <i>s1</i> .
304	wmemset	wchar.h	wchar_t *wmemset(wchar_t *s, wchar_t c, size_t n);	Copies the value of <i>c</i> into each of the first <i>n</i> wide characters of the object pointed to by <i>s</i> .
305	wprintf6	wchar.h	int wprintf(const wchar_t *format, arg- list);	Equivalent to fwprintf with the argument stdout interposed before the arguments to wprintf.
306	wscanf6	wchar.h	int wscanf(const wchar_t *format, arg- list);	Equivalent to fwscanf with the argument stdin interposed before the arguments of wscanf.
307	y0	math.h	double y0(double x);	Calculates the Bessel function value of the second kind of order 0.
308	y1	math.h	double y1(double x);	Calculates the Bessel function value of the second kind of order 1.
309	yn	math.h	double yn(int n, double x);	Calculates the Bessel function value of the second kind of order <i>n</i> .