C++ <cmath>

C++ cos()
Returns Cosine of the Argument

C++ sin()
Returns Sine of the Argument

C++ asin()
Returns Inverse Sine a Number

C++ atan()
Returns Inverse tangent a Number

C++ tan()
Returns Tangent of the Argument

C++ atan2()
Returns Inverse Tangent of a Coordinate

C++ acos()
Returns Inverse cosine a Number

C++ ceil()
Return ceiling value of number

C++ sinh()
returns hyperbolic sine of an angle

C++ acosh()
returns hyperbolic cosine of a number

C++ asinh()
returns arc hyperbolic sine of a number

C++ floor()
Returns floor value of decimal number

C++ tanh()
returns hyperbolic tangent of an angle

C++ fmod()
Computes floating point remainder of division

C++ atanh()
returns arc hyperbolic tangent of a number

C++ log()
Returns Natural Logarithm of a Number

C++ round()
Returns integral value nearest to argument

C++ lround()
Returns the long int value nearest to the argument

C++ trunc()
Truncates the demical part of a number

C++ llround()
Rounds argument to nearest long long int value

C++ rint()
Rounds argument using current rounding mode

C++ lrint()
Rounds argument using current rounding mode

C++ log10()
Returns Base 10 Logarithm of a Number

C++ modf()
Breaks Number Into Integral and Fractional Part

C++ exp()
returns exponential (e) raised to a number

C++ exp2()
Returns 2 raised to a Number

C++ ilogb()
returns integral part of logarithm of |x|

C++ frexp()
breaks float to its binary significand

C++ scalbn()
Scales x by FLT_RADIX to the power n

C++ ldexp()
returns product of x and 2 raised to the power e

C++ expm1()
Returns e raised to Power Minus 1

C++ nearbyint()
Rounds argument to using current rounding mode

C++ logb()
returns logarithm of |x|

C++ log2()
returns base2 logarithm of a number

C++ scalbln()
Scales x by FLT_RADIX to the power n

C++ log1p()
returns natural logarithm of x+1.

C++ remquo()
Computer remainder and stores quotient of x/y

C++ sqrt()
Computes Square Root of A Number

C++ cbrt()
Computes Cube Root of a Number

C++ nexttoward()
returns next value after x in direction of y

C++ hypot()
Returns Square Root of sum of square of Arguments

C++ fmax()
returns largest among two arguments passed

C++ nextafter()
returns next value after x in direction of y

C++ fdim()
Returns Positive Different Between Arguments

C++ cosh()
Returns Hyperbolic Cosine of an Angle

C++ fabs()
returns absolute value of argument

C++ nan()
returns a quiet NaN value

C++ cmath abs()
returns absolute value of an argument

C++ fma()
Returns Fused Multiply–Accumulate

C++ fmin()
returns smallest among two given arguments

C++ copysign()
returns num with value of first and sign of second

C++ remainder()
Returns remainder of x/y

C++ llrint()
Rounds argument using current rounding mode

C++ pow()
Computes Power a Number

C++ <cstdlib>

C++ strtod()

returns string float to double

C++ atof()
Converts String to Double

C++ strtol()
Converts a string to number

C++ atol()
Converts String to Integer

C++ strtoll()
converts string to long long int in C++

C++ strtoull()
converts string to unsigned long long int

C++ realloc()
reallocates a block of previously allocated memory

C++ srand()
seeds pseudo random number for rand()

C++ free()
deallocates a block of memory

C++ malloc()
allocates a block of unitialized memory

C++ atexit()
registers function to be called on termination

C++ at_quick_exit()
registers function and calls on quick termination

C++ getenv()
returns pointer to environment variable passed

C++ quick_exit()
causes termination without cleaning resources

C++ _Exit()
causes termination without cleanup tasks

C++ bsearch()
performs binary search on sorted array

C++ qsort()
sorts array using quick-sort algorithm

C++ cstdlib abs()
returns absolute value of an integer

C++ div()
computes integral quotient and remainder of number

C++ lldiv()

computes integral division of two long long int.

C++ labs()
returns absolute value of long or long int number

C++ ldiv()
computes integral division of long int numbers

C++ llabs()
returns absolute value of a long long int data

C++ mblen()
determines size of a multibyte character

C++ mbtowc()
converts multibyte character to a wide character

C++ wctomb()
converts wide character to a multibyte character

C++ wcstombs()
converts wide character string to multibyte seq

C++ mbstowcs()
converts multibyte char string to wide char seq

C++ calloc()
allocates block of memory and initializes to zero

C++ <iostream>

C++ cin
accepts input from user

C++ cout
displays output to output device i.e monitor

C++ cerr
writes to error stream

C++ clog
used for streaming logs

C++ wcin
accepts input in wide character type

C++ wcout
displays wide characters (Unicode) to screen

C++ wcerr
prints to error stream as wide character type

C++ wclog
writes to log stream with wide character

C++ <cstring>

C++ memcpy()
copies block of memory from source to destination

C++ strcat()
appends copy of string to end of another string

C++ memmove()
copies memory even if there is overlapping blocks

C++ strcpy()
copies character string from source to destination

C++ strncpy()
copies character string from source to destination

C++ strncat()
appends string to end of another string

C++ memcmp()
compares two pointer objects

C++ strcmp()
compare two strings

C++ strncmp()
compares two strings lexographically

C++ memchr()
searches for character in string

C++ strchr()
searches for character in string

C++ strrchr()
searches last occurence of a character in string

C++ strspn()
gives length of maximum initial segment

C++ strcspn()
searches a string for characters in another string

C++ strpbrk()
search characters in one string in another string

C++ strstr()
finds first occurrence of a substring in string

C++ strtok()
split string based on delimiter

C++ memset()
copies character to beginning of string n times

C++ strerror()
gives description of system error code

C++ strlen()
returns length of given string

C++ strcoll()
compares two null terminated string

C++ strxfrm()
transform byte string into implementation def form

C++ <cctype>

C++ isalpha()
checks if given character is alphabet or not

C++ isblank()
checks if given character is a blank character

C++ iscntrl()
checks if given character is control character

C++ isdigit()
checks if given character is a digit or not

C++ isgraph()
checks if given character is graphic or not

C++ islower()
checks if given character is lowercase

C++ isupper()
check if given character is uppercase or not

C++ isprint()
check if given character is printable or not

C++ ispunct()
check if given character is punctuation character

C++ isspace()
check if given character is whitespace character

C++ isxdigit()
checks if given character is hexadecimal character

C++ tolower()
converts a given character to lowercase

C++ toupper()
converts a given character to uppercase

C++ <csignal>

C++ signal()
sets error handler for specifiied signal

C++ raise()
sends signal to the program

C++ <clocale>

C++ setlocale()
sets locale information for the current program

C++ localeconv()
returns current locale formatting rules

C++ <cwctype>

C++ iswgraph()
checks if wide char has graphical representation

C++ iswupper()
checks if given wide character is uppercase

C++ iswalnum()
checks if given wide character is alphanumeric

C++ iswlower()
checks if given wide character is lowercase

C++ iswalpha()
checks if given wide character is an alphabet

C++ iswprint()
checks if given wide character can be printed

C++ iswblank()
checks if given wide character is blank character

C++ iswpunct()
checks if given wide character is punctuation

C++ iswcntrl()
checks if given wide char is control character

C++ iswspace()
checks if given wide character is wide whitespace

C++ iswctype()
checks if given wide char has certain property

C++ towctrans()
transforms a given wide character

C++ iswxdigit()
checks if given wide character is hexadecimal num

C++ wctrans()
returns current transformation for wide character

C++ towlower()
converts given wide character to lowercase

C++ wctype()
returns wide character classification

C++ towupper()
converts given wide character to uppercase

C++ iswdigit()
checks if given wide character is digit or not

C++ <cstdio>

C++ remove()
deletes the specified file

C++ rename()
renames or moves specified file

C++ tmpfile()
creates temporary file with auto-generated name

C++ fclose()
closes given file stream

C++ fopen()
opens specified file

C++ setbuf()
sets the internal buffer to be used for I/O

C++ tmpnam()
generates unique filename

C++ printf()
write formatted string to stdout

C++ scanf
read data form stdin

C++ fprintf()
write a formatted string to file stream

C++ fscanf()

read data from file stream

C++ sscanf()
read data from string buffer

C++ snprintf()
write formatted string to character string buffer

C++ sprintf()
write a formatted string to buffer

C++ vfprintf()
write formatted string to file stream

C++ vprintf()
printf but takes args from vlist instead

C++ vsnprintf()
write formatted string to string buffer

C++ vsprintf()
write formatted string to a string buffer

C++ fgetc()
reads the next character from given input stream

C++ fgets()
reads n number of characters from file stream

C++ fputc()
writes character to given output stream

C++ fputs()
writes string to file stream

C++ getchar()
reads next character from stdin

C++ gets()
reads line from stdin

C++ putc()
writes character to given output stream

C++ putchar()
writes a character to stdout

C++ fread()
reads specified no. of characters from stream

C++ fwrite()
writes specified number of characters to stream

C++ fgetpos()
gets current file position

C++ fsetpos()

sets stream file pointer to given position

C++ puts()
writes string to stdout

C++ perror()
prints error to stderr

C++ rewind()
sets file position to beginning of stream

C++ clearerr()
resets error flags and EOF indicator for stream

C++ feof() function
checks if file stream EOF has been reached or not

C++ ferror()
checks for errors in given stream

C++ ftell()
returns current position of file pointer

C++ setvbuf()
change or specify buffering mode and buffer size

C++ fflush()
flushes any buffered data to the respective device

C++ freopen()
opens a new file with stream associated to another

C++ vfscanf()
read data from a file stream

C++ vscanf()
read data from stdin

C++ vsscanf()
read data from a string buffer

C++ ungetc()
push previously read character back to the stream

C++ fseek()
sets file position indicator for given file stream

C++ getc()
reads next character from input stream

C++ <cwchar>

C++ fwide()
set or query orientation of given file stream

C++ fgetwc()
reads next wide character from given input stream

C++ fgetws()
reads specified num of wide characters from stream

C++ fputwc()
writes wide character to the given output stream

C++ fputws()
writes wide string except null wide char to output

C++ fwprintf()
write formatted wide string to a file stream

C++ fwscanf()
reads wide character from file stream

C++ getwc()
reads next wide character from input stream

C++ ungetwc()
push previously read wide character back to stream

C++ putwc()
writes wide character to the given output stream

C++ vfwprintf()
write formatted wide string to a file stream

C++ putwchar()
writes wide character to stdout

C++ vfwscanf()
read wide character string from a file stream

C++ swprintf()
write formatted wide string to wide string buffer

C++ vswprintf()
write formatted wide string to wide string buffer

C++ swscanf()
reads wide character from wide string buffer

C++ getwchar()
reads next wide character from stdin

C++ vwprintf()
write formatted wide string to stdout

C++ vwscanf()
read wide character from stdin

C++ wprintf()
write formatted wide string to stdout

C++ wscanf()
reads wide character from stdin

C++ vswscanf()
read wide character string from wide string buffer

C++ wcstod()
converts wide string float number to double

C++ wcstof()
converts wide string float number to float

C++ wcstol()
converts wide string float number to long int

C++ wcstold()
converts wide string float number to long double

C++ wcstok()
returns next token in null terminated wide string

C++ wcschr()
searches for a wide character in a wide string

C++ btowc()
converts character to its wide character

C++ wcrtomb()
convert wide character to its narrow multibyte rep

C++ mbrlen()
determines size in bytes of a multibyte character

C++ wctob()
converts wide character to single byte character

C++ mbrtowc()
converts narrow multibyte char to wide char

C++ wcsrtombs()
convert wide char seq to narrow multibyte char seq

C++ mbsinit()
describe initial conversion state of mbstate_t obj

C++ wcscat()
appends copy of wide string to the end of another

C++ mbsrtowcs()
convert narrow multibyte char seq to wide char seq

C++ wcsncat()
appends specified num of wide char to another str

C++ wcscmp()
lexicographically compares two wide string

C++ wcsncmp()
compares specified number of wide char of strings

C++ wcscpy()
copies wide character string from source to dest

C++ wcscspn()
returns number of wide char before first occurence

C++ wcslen()
returns length of the given wide string

C++ wcsrchr()
searches last occurrence of wide char in string

C++ wcsspn()
returns length of maximum initial segment

C++ wcsstr()
finds first occurrence of wide substring in a str

C++ wcsncpy()
copies specified number of wide characters

C++ wcsxfrm()
transforms wide string to implementation defined

C++ wcspbrk()
searches for set of wide char in given wide string

C++ wcsftime()
converts given date and time to wide character str

C++ wmemcmp()
compares wide chars of two wide strings

C++ wmemcpy()
copies specified num of wide char from src to dest

C++ wmemmove()
moves wide chars from src to dest

C++ wmemset()
copies single wide char for a certain num of time

C++ wmemchr()
searches for first occurrence of wide char

C++ wcstoll()
converts wide string of specified base to int

C++ wcstoul()
converts wide str of given base to unsigned long

C++ wcstoull()
converts wide string num to unsigned long long

C++ wcscoll()
compares two null terminated wide string

C++ <cuchar>

C++ c16rtomb()
converts 16 bit char to narrow multibyte char

C++ c32rtomb()
converts 32 bit char to narrow multibyte char

C++ mbrtoc16()
converts narrow multibyte char to 16 bit char

C++ mbrtoc32()
converts narrow multibyte char to 32 bit char

C++ <csetjmp>

C++ longjmp() and setjmp()
restores previously saved environment

C++ <cfenv>

C++ feclearexcept()
attempts to clear floating point exception flags

C++ feraiseexcept()
raises floating point exceptions specified

C++ fegetexceptflag()
gets floating point exception flags

C++ fesetexceptflag()
sets given floating point exceptions to the env

C++ fegetround()
gets round direction mode

C++ fegetenv()
store status of floating point env in an object

C++ feupdateenv()
updates floating point environment

C++ fetestexcept()
tests floating point exception

C++ fesetround()

set rounding direction

C++ fesetenv()
set floating point environment

C++ feholdexcept()
saves and clear floating point status flags

C++ <ctime>

C++ clock()
returns processor time consumed by program

C++ difftime()
computes difference between two times in seconds

C++ time()
returns current calendar time

C++ ctime()
converts time since epoch to char representation

C++ asctime()
converts calendar time to character representation

C++ gmtime()
converts given time since epoch to UTC time

C++ localtime()
converts given time since epoch to local time

C++ mktime()
converts local calendar time to time since epoch

C++ strftime()
converts calendar time to multibyte character str