

# C Library - <ctype.h>

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The **ctype.h** header file of the C Standard Library declares several functions that are useful for testing and mapping characters.

All the functions accepts int as a parameter, whose value must be EOF or representable as an unsigned char.

All the functions return non-zero (true) if the argument c satisfies the condition described, and zero(false) if not.

### **Library Functions**

Following are the functions defined in the header ctype.h -

S.N.	Function & Description
1	<pre>int isalnum(int c) This function checks whether the passed character is alphanumeric.</pre>
2	<pre>int isalpha(int c) This function checks whether the passed character is alphabetic.</pre>
3	<pre>int iscntrl(int c) This function checks whether the passed character is control character.</pre>
4	int isdigit(int c)  This function checks whether the passed character is decimal digit.
5	int isgraph(int c)

	This function checks whether the passed character has graphical representation using locale.
6	int islower(int c)
	This function checks whether the passed character is lowercase letter.
7	int isprint(int c)
	This function checks whether the passed character is printable.
8	int ispunct(int c)
	This function checks whether the passed character is a punctuation character.
9	int isspace(int c)
	This function checks whether the passed character is white-space.
10	int isupper(int c)
	This function checks whether the passed character is an uppercase letter. $\equiv$
11	int isxdigit(int c)
	This function checks whether the passed character is a hexadecimal digit.

The library also contains two conversion functions that accepts and returns an "int".

S.N.	Function & Description
1	int tolower(int c)
	This function converts uppercase letters to lowercase.
2	int toupper(int c)
	This function converts lowercase letters to uppercase.

## **Character Classes**

S.N.	Character Class & Description
1	<b>Digits</b> This is a set of whole numbers { 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 }.
2	Hexadecimal digits This is the set of { 0 1 2 3 4 5 6 7 8 9 A B C D E F a b c d e f }.
3	Lowercase letters This is a set of lowercase letters { a b c d e f g h i j k l m n o p q r s t u v w x y z }.
4	<pre>Uppercase letters This is a set of uppercase letters {ABCDEFGHIJKLMNOPQRSTUVWXYZ}.</pre>
5	Letters This is a set of lowercase and uppercase letters.
6	Alphanumeric characters  This is a set of Digits, Lowercase letters and Uppercase letters.
7	<b>Punctuation characters</b> This is a set of ! " # \$ % & ' ( ) * + , / : ; < = > ? @ [ \ ] ^ _ ` {   } ~
8	Graphical characters  This is a set of Alphanumeric characters and Punctuation characters.
9	Space characters  This is a set of tab, newline, vertical tab, form feed, carriage return, and space.
10	<b>Printable characters</b> This is a set of Alphanumeric characters, Punctuation characters and Space characters.
11	Control characters In ASCII, these characters have octal codes 000 through 037, and 177 (DEL).

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12	Blank characters	
	These are spaces and tabs.	
13	Alphabetic characters	
	This is a set of Lowercase letters and Uppercase letters.	
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