

C Programming Language

Place your ad here

Place your ad here

Topics List

- Introduction to C
- Introduction to Computer Systems
- Computing Environments
- Computer Languages
- Creating and Running C Program
- Program Development Life Cycle
- C Background
- C Program Basics
- C Character Set**
- C Tokens
- C Keywords
- C Identifiers
- C Datatypes
- C Variables
- C Constants
- C Storage Classes
- C Output Functions
- C Input Functions
- C Operators
- C Expressions
- C Operator Precedence and Associativity
- C Expression Evaluation
- Type Casting and Conversion in C
- 'if' Statement in C
- 'switch' statement in C
- while Statement in C
- do-while Statement in C
- for Statement in C
- break, continue and goto in C
- Designing Structured Programs in C
- Functions in C
- Types of Functions in C
- Parameter Passing in C
- Inter Function Communication in C
- Standard Functions in C
- Scope of Variable in C
- Recursive Functions in C
- Type Qualifiers in C
- Preprocessor Commands in C
- Arrays in C
- Types of Arrays in C
- Applications of Arrays in C
- Pointers in C
- Pointers Arithmetic Operations in C
- Pointers to Pointers in C
- Pointers to void in C
- Pointers to Arrays in C
- Pointers For Functions in C
- Dynamic Memory Allocation in C
- Strings in C
- String Handling Functions in C
- Enumerated Types (enum) in C
- typedef in C
- Structures in C
- Unions in C
- Bit Fields in C
- Command Line Arguments in C
- Files in C
- File Handling Functions in C
- Error Handling in C

◀ Previous

Next ▶

C Character Set

As every language contains a set of characters used to construct words, statements, etc., C language also has a set of characters which include **alphabets**, **digits**, and **special symbols**. C language supports a total of 256 characters.

Every C program contains statements. These statements are constructed using words and these words are constructed using characters from C character set. C language character set contains the following set of characters...

1. Alphabets
2. Digits
3. Special Symbols

Alphabets

C language supports all the alphabets from the English language. Lower and upper case letters together support 52 alphabets.

lower case letters - **a to z**

UPPER CASE LETTERS - **A to Z**

Digits

C language supports 10 digits which are used to construct numerical values in C language.

Digits - **0, 1, 2, 3, 4, 5, 6, 7, 8, 9**

Special Symbols

C language supports a rich set of special symbols that include symbols to perform mathematical operations, to check conditions, white spaces, backspaces, and other special symbols.

Special Symbols - **~ @ # \$ % ^ & * () _ - + = { } [] ; : " ' / ? . > , < \ | tab newline space NULL bell backspace verticaltab etc.**

Every character in C language has its equivalent ASCII (American Standard Code for Information Interchange) value.

Commonly used characters in C with their ASCII values

These are Control Characters			These are Printable Characters			
ASCII Value	Character	Meaning	ASCII Value	Character	ASCII Value	Character
0	NULL	null	32	Space	64	@
1	SOH	Start of header	33	!	65	A
2	STX	start of text	34	"	66	B
3	ETX	end of text	35	#	67	C
4	EOT	end of transaction	36	\$	68	D
5	ENQ	enquiry	37	%	69	E
6	ACK	acknowledgement	38	&	70	F
7	BEL	bell	39		71	G
8	BS	back Space	40	(72	H
9	HT	Horizontal Tab	41)	73	I
10	LF	Line Feed	42	*	74	J
11	VT	Vertical Tab	43	+	75	K
12	FF	Form Feed	44	,	76	L
13	CR	Carriage Return	45	-	77	M
14	SO	Shift Out	46	.	78	N
15	SI	Shift In	47	/	79	O
16	DLE	Data Link Escape	48	0	80	P
17	DC1	Device Control 1	49	1	81	Q
18	DC2	Device Control 2	50	2	82	R
19	DC3	Device Control 3	51	3	83	S
20	DC4	Device Control 4	52	4	84	T
21	NAK	Negative Acknowledgement	53	5	85	U
22	SYN	Synchronous Idle	54	6	86	V
23	ETB	End of Trans Block	55	7	87	W
24	CAN	Cancel	56	8	88	X
25	EM	End of Medium	57	9	89	Y
26	SUB	Sunstitute	58	:	90	Z
27	ESC	Escape	59	;	91	[
28	FS	File Separator	60	<	92	\
29	GS	Group Separator	61	=	93]
30	RS	Record Separator	62	>	94	^
31	US	Unit Separator	63	?	95	_
					96	`
					97	a
					98	b
					99	c
					100	d
					101	e
					102	f
					103	g
					104	h
					105	i
					106	j
					107	k
					108	l
					109	m
					110	n
					111	o
					112	p
					113	q
					114	r
					115	s
					116	t
					117	u
					118	v
					119	w
					120	x
					121	y
					122	z
					123	{
					124	
					125	}
					126	~
					127	DEL

DEL is also Control Characters

C program to print all the characters of C character Set

```
#include<stdio.h>
#include<conso.h>
int main() {
    int i;
    clrscr();
    printf("ASCII ==> Character\n");
    for(i = -128; i <= 127; i++)
        printf("%d ==> %c\n", i, i);
    getch();
    return 0;
}
```

Place your ad here



Find EP3C40F484I8N - Fast Delivery 🔍

Welcome to Depu Electronics Online Store, Featured products: Find EP3C40F484 fpgamall.com

[OPEN](#)