

009 - DATA TYPES IN C

A data type specifies the type of data that a variable can store such as integer, floating, character, etc.

DATA TYPES IN C :-

BASIC DATA TYPES

int, char, float, double

DERIVED DATA TYPES

array, pointer, structure, union

ENUMERATION DATA TYPES

enum

VOID DATA TYPE

void

The basic data types are integer-based and floating-point based.

C language supports both signed and unsigned literals.

The memory size of the basic data types may change according to 32 or 64-bit operating system.

Let's see the basic data types. Its size is given according to 32-bit architecture.

Data Types	Size	Range
char	1 byte	−128 to 127
signed char	1 byte	−128 to 127
unsigned char	1 byte	0 to 255
short	2 byte	−32,768 to 32,767
signed short	2 byte	−32,768 to 32,767
unsigned short	2 byte	0 to 65,535
int	2 byte	−32,768 to 32,767
signed int	2 byte	−32,768 to 32,767
unsigned int	2 byte	0 to 65,535
short int	2 byte	−32,768 to 32,767
signed short int	2 byte	−32,768 to 32,767
unsigned short int	2 byte	0 to 65,535
long int	4 byte	-2,147,483,648 to 2,147,483,647
signed long int	4 byte	-2,147,483,648 to 2,147,483,647
unsigned long int	4 byte	0 to 4,294,967,295
float	4 byte	range
double	8 byte	range
long double	10 byte	range