

Query ID: test194

Query Text: what is the function of the semicolon in a c statement

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1	doc7106	Semicolon. In computer programming, the semicolon is often used to separate multiple statements (for example, in Perl, Pascal, PL/I, and SQL; see Pascal: Semicolons as statement separators). In other
0	doc1470784	struct (C programming language). The general syntax for a struct declaration in C is:
0	doc1025635	JavaScript. JavaScript supports much of the structured programming syntax from C (e.g., if statements, while loops, switch statements, do while loops, etc.). One partial exception is scoping: JavaScri
0	doc692577	C (programming language). The next line indicates that a function named main is being defined. The main function serves a special purpose in C programs; the run-time environment calls the main functio
0	doc1384593	Entry point. The main() function is special; normally every C and C++ program must define it exactly once.
0	doc236723	Continuous function. A function f is lower semi-continuous if, roughly, any jumps that might occur only go down, but not up. That is, for any $\epsilon > 0$, there exists some number $\delta > 0$ such that for all x
0	doc692541	C (programming language). During the late 1970s and 1980s, versions of C were implemented for a wide variety of mainframe computers, minicomputers, and microcomputers, including the IBM PC, as its pop
0	doc1377647	Pointer (computer programming). The basic syntax to define a pointer is:[4]
0	doc126136	Array data structure. If the valid element indices begin at 0, the constant B is simply the address of the first element of the array. For this reason, the C programming language specifies that array
0	doc1606378	Source lines of code. Consider this snippet of C code as an example of the ambiguity encountered when determining SLOC:
0	doc807498	Ellipsis. A two- or three-dot ellipsis is used as an operator in some programming languages. The precise meaning varies by language, but it generally involves something dealing with multiple items. On
0	doc1027650	Recursion (computer science). In C, the standard recursive algorithm may be implemented as:
0	doc2508200	Escape sequences in C. This instructs the program to print Hello,, followed by the byte whose numerical value is 0x0a, followed by world!. While this will indeed work when the machine uses the ASCII e
0	doc2508207	Escape sequences in C. An octal escape sequence consists of \ followed by one, two, or three octal digits. The octal escape sequence ends when it either contains three octal digits already, or the nex
0	doc453831	I before E except after C. Other exceptions:
0	doc1401073	printf format string. The width field may be omitted, or a numeric integer value, or a dynamic value when passed as another argument when indicated by an asterisk *. For example, printf("%*d", 5, 10)
0	doc305550	While loop. For example, in the C programming language (as well as Java, C#, [2] Objective-C, and C++, which use the same syntax in this case), the code fragment
0	doc2282223	Program optimization. In some procedural languages, such as C and C++, macros are implemented using token substitution. Nowadays, inline functions can be used as a type safe alternative in many cases.
0	doc1106019	C data types. Scanf format string
0	doc692540	C (programming language). The large number of extensions and lack of agreement on a standard library, together with the language popularity and the fact that not even the Unix compilers precisely impl
0	doc845655	C dynamic memory allocation. Some platforms provide library calls which allow run-time dynamic allocation from the C stack rather than the heap (e.g. alloca()[6]). This memory is automatically freed w
0	doc1217142	Percent sign. sets a new value for PATH, that being the old value preceded by "c:\.". Because these uses

0	doc1599030	give the percent sign special meaning, the sequenceA %% (two percent signs) is used to represen
0	doc27089	Colon (punctuation). The combination with an equal sign (=) is used for definitions.
0	doc1384604	Bitwise operations in C. The most significant bit of the first number is 1 and that of the second number is
0	doc1470797	also 1 so the most significant bit of the result is 1; in the second most significant bit, t
0	doc722525	Entry point. In D, the function prototype of the main function looks like one of the following:
0	doc1589038	struct (C programming language). The following assignment of a struct to another struct will copy as one
0	doc2573854	might expect. Depending on the contents, a compiler might use memcpy() in order to perform this
0	doc1106000	Python (programming language). Python's statements include (among others):
0	doc1865024	ANSI C. To mitigate the differences between K&R C and the ANSI C standard, the __STDC__ ("standard
0	doc1377678	c") macro can be used to split code into ANSI and K&R sections.
0	doc485170	Structured programming. Blocks are used to enable groups of statements to be treated as if they were
0	doc2487985	one statement. Block-structured languages have a syntax for enclosing structures in some formal way
0	doc27096	C data types. The relation requirements are that the long long is not smaller than long, which is not
0	doc2487991	smaller than int, which is not smaller than short. As char's size is always the minimum supported
0	doc2089748	Line editor. While TECO is sometimes incorrectly considered a line editor, it is in fact modal and
0	doc2455265	character-oriented. In non-technical terms, it's perhaps best described as a modern editor in the tra
0	doc1950703	Pointer (computer programming). The code below illustrates how memory objects are dynamically
0	doc2522066	deallocated, i.e., returned to the heap or free store. The standard C library provides the function free()
		Comment (computer programming). Line comments either start with a comment delimiter and continue
		until the end of the line, or in some cases, start at a specific column (character line offset) in the
		Pascal (programming language). As shown in the example above, Pascal files are sequences of
		components. Every file has a buffer variable which is denoted by f^. The procedures get (for reading) and
		pu
		Bitwise operations in C. Right shift can be used to divide a bit pattern by 2 as shown:
		Pascal (programming language). Inside of the scope of the with statement, a and b refer to the subfields
		of the record pointer NodePtr and not to the record Node or the pointer type pNode.
		Select (SQL). With the same table, the query SELECT * FROM T WHERE C1 = 1 will result in all the
		elements of all the rows where the value of column C1 is '1' being shown in Relational algebra terms,
		Comma. In general, the comma shows that the words immediately before the comma are less closely or
		exclusively linked grammatically to those immediately after the comma than they might be otherwise. T
		Relational operator. Other programming languages, such as Lisp, use prefix notation, as follows:
		AND gate. The AND gate with inputs A and B and output C implements the logical expression

C

=

A

B

$$C=A\cdot B$$

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0	doc1027606	Recursion (computer science). This distinction is important in proving termination of a function.
0	doc1599044	Colon (punctuation). The colon is also used in many operating systems commands. It is often used as a single post-fix delimiter, signifying a token keyword had immediately preceded it or the transitio
0	doc2487997	Pascal (programming language). Procedures and functions can nest to any depth, and the 'program' construct is the logical outermost block.
0	doc1401087	printf format string. If the syntax of a conversion specification is invalid, behavior is undefined, and can cause program termination. If there are too few function arguments provided to supply valu
0	doc353307	Scrabble letter distributions. In this version, note that C has no tile as it is used almost exclusively in the digraph CH.
0	doc1384572	Entry point. Alternatively, execution of a program can begin at a named point, either with a conventional name defined by the programming language or operating system, or at a caller-specified name. I
0	doc2262302	LR parser. where the top of the stack is 2. For the sake of explanation the symbol (e.g., '1', B) is shown that caused the transition to the next state, although strictly speaking it is not part of th
0	doc1384626	Entry point. Command-line arguments are available in the special array @ARGV. Unlike C, @ARGV does not contain the name of the program, which is \$0.
0	doc2267946	Business letter. Business letters conform to generally one of six indentation formats: standard, open, block, semi-block, modified block, and modified semi-block. Put simply, "semi-" means that the fi
0	doc550649	Parameter (computer programming). Output and input/output parameters prevent function composition, since the output is stored in variables, rather than in the value of an expression. Thus one must ini
0	doc523027	First-class citizen. In many older languages, arrays and strings are not first-class: they cannot be assigned as objects or passed as parameters to a subroutine. For example, neither Fortran IV nor C
0	doc550618	Parameter (computer programming). The routine sum takes two arguments addend1 and addend2, which are called the routine's formal arguments. A call to sum specifies actual arguments, as shown below wit
0	doc1640559	C preprocessor. Many compilers define additional, non-standard macros, although these are often poorly documented. A common reference for these macros is the Pre-defined C/C++ Compiler Macros project,
0	doc1200743	Control flow. Generators, also known as semicoroutines, allow control to be yielded to a consumer method temporarily, typically using a yield keyword. Like the async keyword, this supports programming
0	doc2282226	Program optimization. In both cases, work is moved to compile-time. The difference between C macros on one side, and Lisp-like macros and C++ template metaprogramming on the other side, is that the la
0	doc2257709	Boolean data type. In programming languages with a built-in Boolean data type, such as Pascal and Java, the comparison operators such as > and < are usually defined to return a Boolean value. Condit
0	doc2474947	C++ classes. In addition to the operators specified above, the arrow operator (->), the starred arrow (->*), the new keyword and the delete keyword can also be overloaded. These memory-or-pointer-rela
0	doc1233958	alias (command). This alias means that when the command copy is read in the shell, it will be replaced with cp and that command will be executed instead.
0	doc1200681	Control flow. In other languages such as C and Ada, a label is an identifier, usually appearing at the start of a line and immediately followed by a colon. For example, in C:
0	doc881267	Unix shell. The C shell, csh, was written by Bill Joy while a graduate student at University of California, Berkeley and widely distributed with BSD Unix.[9] The language, including the control struct

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