Ch 9. Pointers

CS 2308 Fall 2011

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Lecture 4

A Quote

A pointer is a variable that contains the address of a variable. Pointers are much used in C, partly because they are sometimes the only way to express a computation, and partly because they usually lead to more compact and efficient code than can be obtained in other ways. Pointers and arrays are closely related; this chapter also explores this relationship and shows how to exploit it.

Pointers have been lumped with the goto statement as a marvelous way to create impossible-to-understand programs. This is certainly true when they are used carelessly, and it is easy to create pointers that point somewhere unexpected. With discipline, however, pointers can also be used to achieve clarity and simplicity. This is the aspect that we will try to illustrate.

From: "The C Programming Language (2nd ed.)", Brian W. Kernighan and Dennis M.Ritchie, Englewood Cliffs, NJ: Prentice Hall. 1988. p. 93.

1





Using Pointer Variables
 ptr gets the address of x:
<pre>int x = 99; int *ptr;</pre>
<pre>ptr = &x cout << x << endl; cout << ptr << endl;</pre>
Output: 99 0xbfffb0c
ptr x
bffffb0c 99



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