

I/O Statements from a Familiar Program

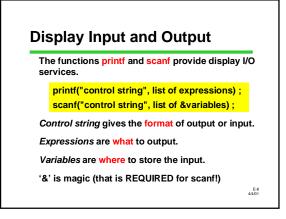
printf("Enter a Fahrenheit temperature: ");

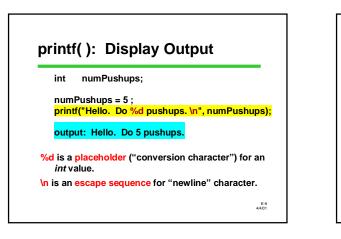
scanf("%lf", &fahrenheit);

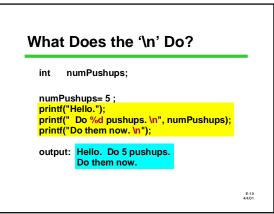
celsius = (fahrenheit - 32.0) * 5.0 / 9.0;

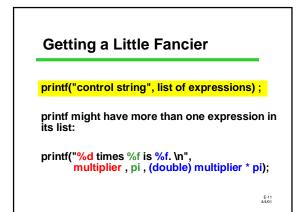
printf("That equals %f degrees Celsius.", celsius):

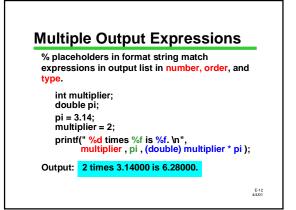
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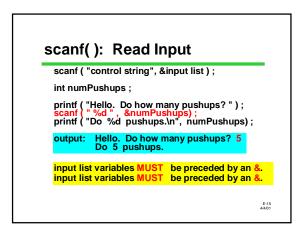




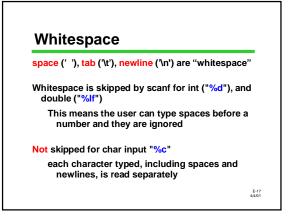


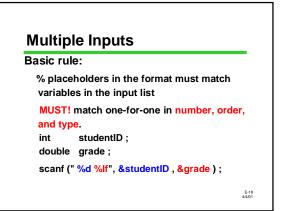
This is only the b things you can	eginning! A few of many other do:
Control numb	er of decimals
3.1 vs 3.1	00000
Exponential (s	scientific) or decimal notation
3.1 vs 3.1	E0
Control total v	vidth (including spaces)
3.	1 vs3.1
How?	
Look in textbook online help!	or a reference manual, or
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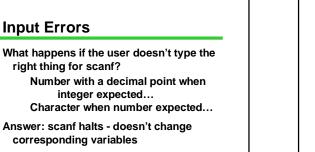
%1 0.2 f	123.55	double
%1 0.4 f	123.5500	
%.2f	123.55	
%1 0d	475	int
%-10d	475	
%10c	a	char





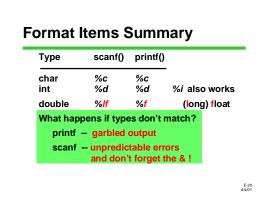


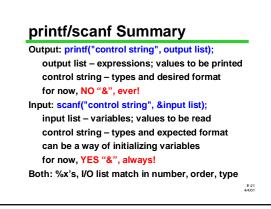


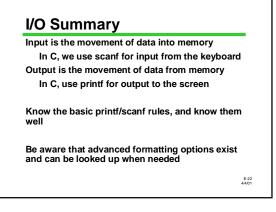


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Can we detect this when it happens? Yes, but let's wait on that..







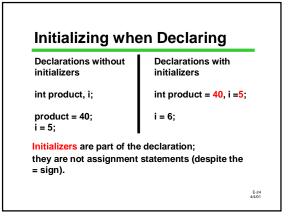
Review Topic: More on Initializing Variables

Review: Initialization means giving something a value for the first time. Potential ways to initialize:

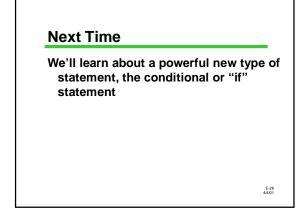
Assignment statement scanf

Yet another way: initializer with declaration

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int main (void) {	/*line 1*/
int a, b, c, d=10;	/*line 2*/
b=5;	/*line 3*/
d=6;	/*line 4*/
scanf("%d %d", &b, &c);	/*line 5*/
return 0;	/*line 6*/
}	
Q: Where is each of a, b, c	, and d initialized?



QOTD: Madlibf "Madlibs" are games where a person asks for a series of words of different types and then puts those out-of-context words into a story. Write a scanf statement that would read all the appropriate underlined entries for the following Madlibf: "J just got my grade back in <u>C S E 142</u>. It was a <u>3.2</u>! That's a <u>B</u> letter grade! I tell you, I feel 100% better about that class, now!"