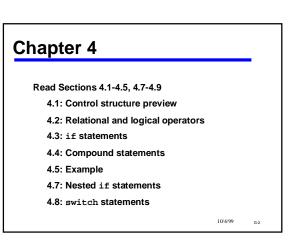
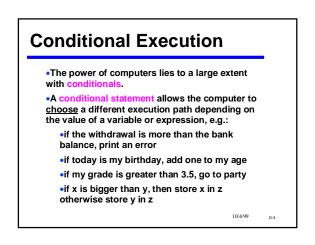
CSE / ENGR 142 Programming I

Conditionals

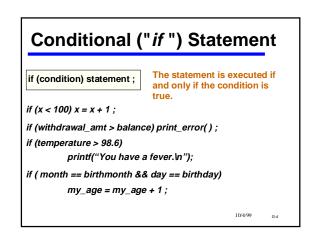
© 1999 UW CSE

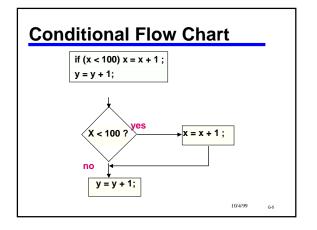


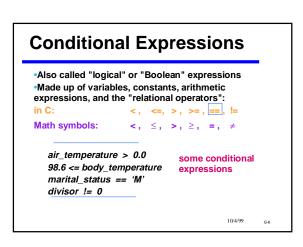


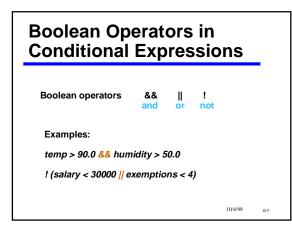
10/4/99

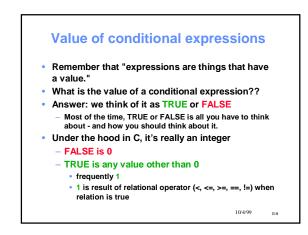
G.1

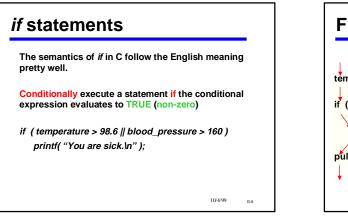


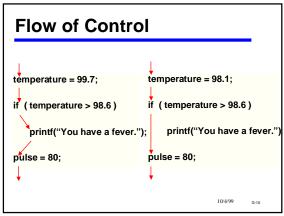


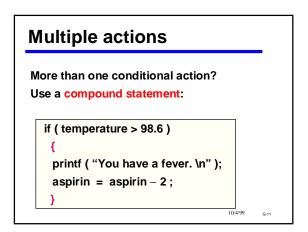


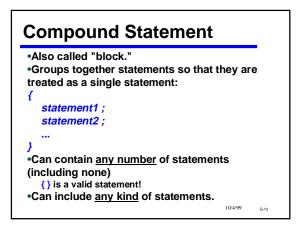












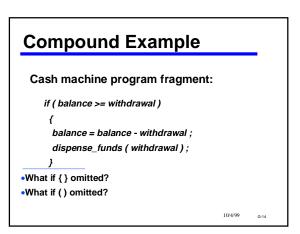
Principles for combining and substituting statements

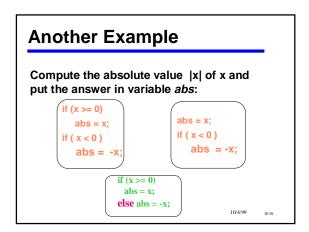
1. You may use a compound statement <u>anywhere</u> that a single statement may be used.

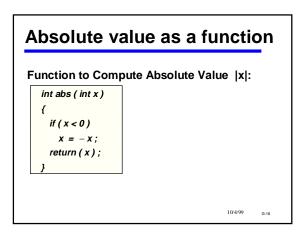
2. Anywhere that a statement is allowed in C, <u>any</u> <u>kind</u> of statement can be used.

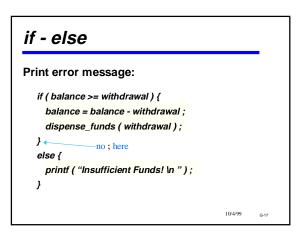
Among other things, these principles imply that compound statements can be nested to any depth.

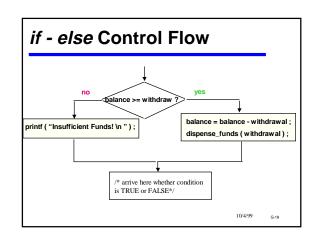
10/4/99 G-13

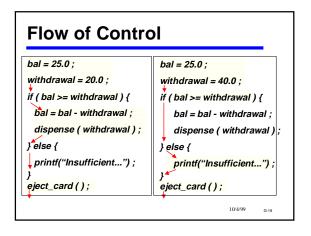


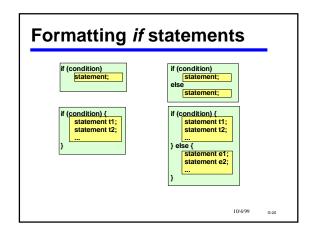


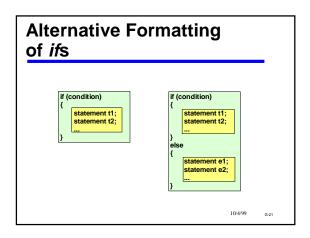


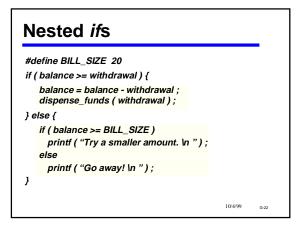


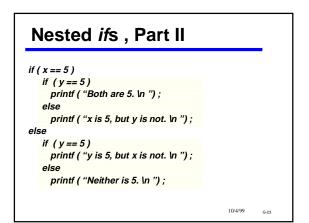


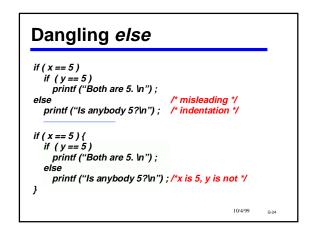


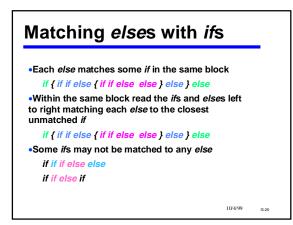




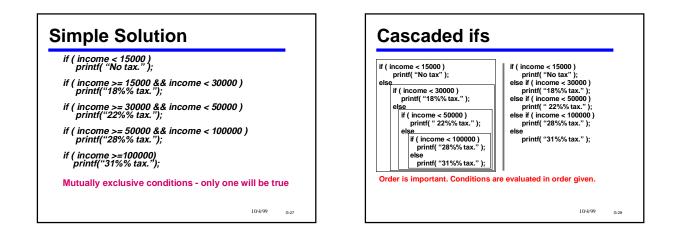


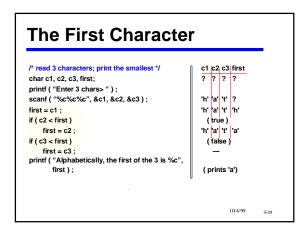


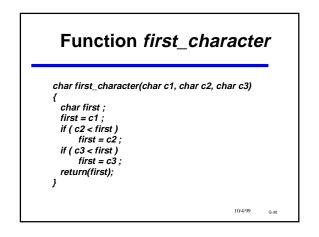




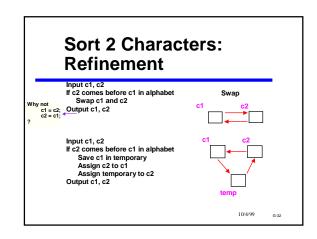
Print the	% tax based on incom	٥.		
	income	tax	1	
	< 15,000	0%		
	15,000, < 30,000	18%		
	30,000, < 50,000	22%		
	50,000, < 100,000	28%		
	100,000	31%		

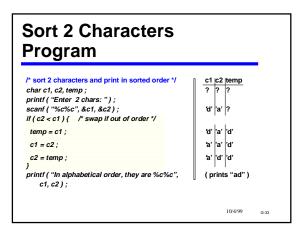


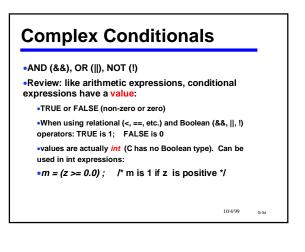




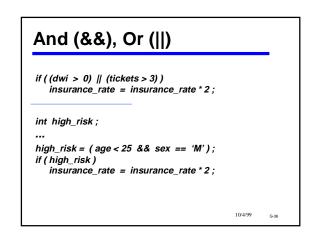
Sort 2 Cha Top Down			
Input two chara	cters		
Rearrange them	n in sorted orde	ər	
Output them in	sorted order		
Input: ra	Output: ar		
Input: nt	Output: nt		
		10/4/99	G-31



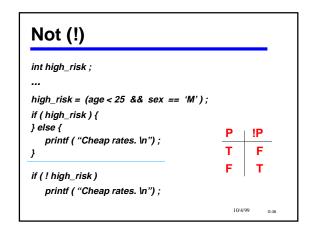


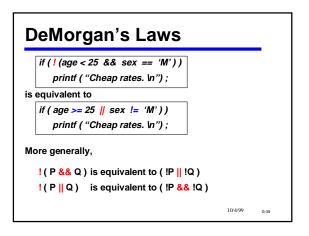


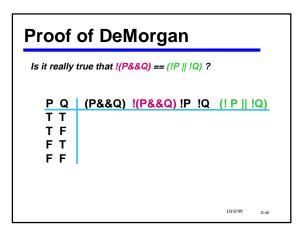
Nested if vs. AND (&&)		
if (age < 25) if (sex == 'M') insurance_rate = insurance_rate * 2 ;		
if ((age < 25) && (sex == 'M')) insurance_rate = insurance_rate * 2 ;		
	10/4/99	G-35

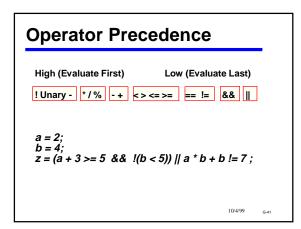


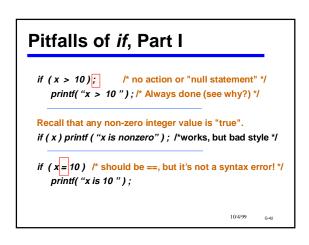
			e combinations ch combination
ΡQ	P && Q	P Q	
ТТ	Т	т	
T F	F	т	
F T	F	т	
	F	F	









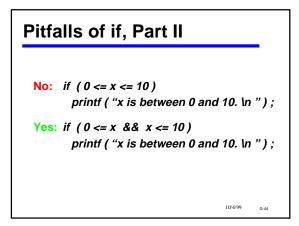


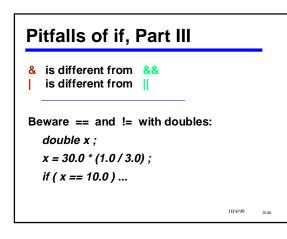
The World's Last C Bug

status = check_radar();
if (status = 1)
launch_missiles();

10/4/99

G-43





Longwinded <i>i</i>	f
/* How many days in a mor	nth? */
if (month == 1) days = 31 ;	/* Jan */
else if (month == 2) days = 28 ;	/* Feb */
else if (month == 3) days = 31 ;	/* Mar */
else if (month == 4) days = 30 ;	/* Apr */
	/* need 12 of these */
	10/4/99 G-46

Clearer Style	
if (month == 9 month == 4 month == 6 month == 11) days = 30 :	
else if (month == 2) days = 28;	/* Feb */
else	
days = 31;	/* All the rest */

