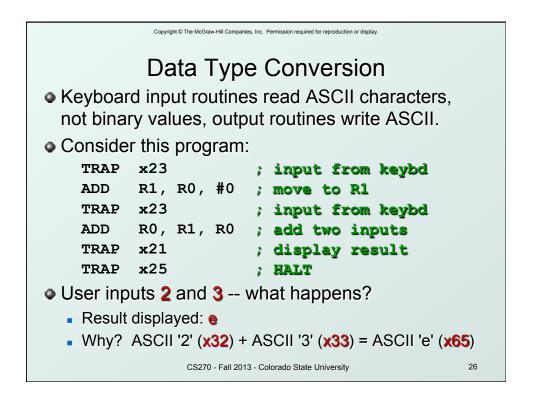
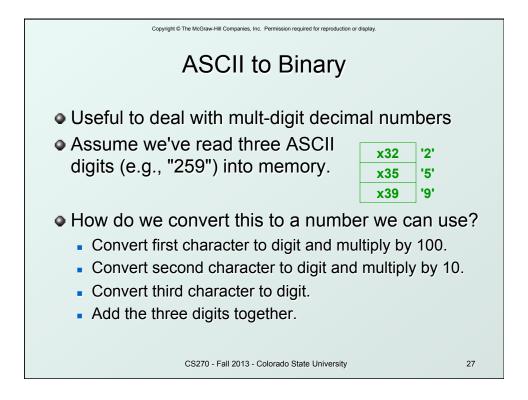
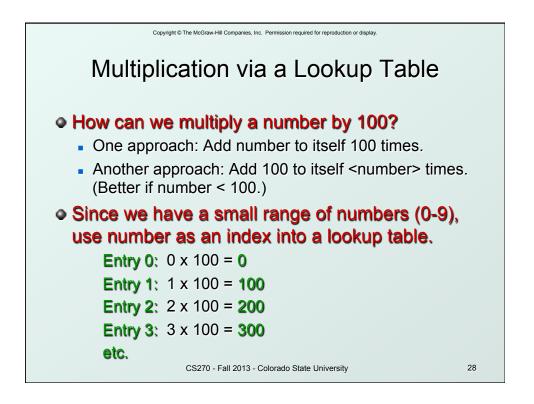


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Example: OpAdd									
<pre>OpAdd JSR POP ; Get first operand. ADD R5,R5,#0 ; Check for POP success. BRp Exit ; If error, bail. ADD R1,R0,#0 ; Make room for second. JSR POP ; Get second operand. ADD R5,R5,#0 ; Check for POP success. BRp Restore1 ; If err, restore &amp; bail. ADD R0,R0,R1 ; Compute sum. JSR RangeCheck ; Check size. BRp Restore2 ; If err, restore &amp; bail. JSR PUSH ; Push sum onto stack. RET Restore2 ADD R6,R6,#-1 ; undo first POP Restore1 ADD R6,R6,#-1 ; undo second POP Exit RET</pre>									
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Code for Lookup Table										
; multiply R0 by 100, using lookup table ;										
LEA R1, Lookup100 ; R1 = table base										
ADD R1, R1, R0 ; add index (R0)										
LDR R0, R1, #0 ; load from M[R1]										
•••										
Lookup100 .FILL 0 ; entry 0										
.FILL 100 ; entry 1										
.FILL 200 ; entry 2										
.FILL 300 ; entry 3										
.FILL 400 ; entry 4										
.FILL 500 ; entry 5										
.FILL 600 ; entry 6										
.FILL 700 ; entry 7										
.FILL 800 ; entry 8										
.FILL 900 ; entry 9										
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Complete Conversion Routine (1 of 3)									
; Three-digit buffer at ASCIIBUF.									
; R1 tells how many digits to convert.									
; Put resulting decimal number in R0.									
ASCIItoBinary									
AND	R0, R0, #0 ; clear result								
	R1, R1, #0 ; test # digits								
BRz	DoneAtoB ; done if no digits								
LD	R3, NegZero ; $R3 = -x30$								
LEA	R2, ASCIIBUF								
	R2, R2, R1								
ADD	R2, R2, #-1 ; points to ones digit								
LDR	R4, R2, #0 ; load digit								
ADD	R4, R4, R3 ; convert to number								
ADD	R0, R0, R4 ; add 1's								
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Conversion Routine (2 of 3)								
ADD	R1, R1, #-1	;	one less digit					
BRz	DoneAtoB	;	done if zero					
ADD	R2, R2, #-1	;	points to tens digit					
LDR	R4, R2, #0	;	load digit					
ADD	R4, R4, R3	;	convert to number					
LEA	R5, Lookup10	;	multiply by 10					
ADD	R5, R5, R4							
LDR	R4, R5, #0							
ADD	R0, R0, R4	;	adds 10's					
ADD	R1, R1, #-1	;	one less digit					
BRz	DoneAtoB	;	done if zero					
ADD	R2, R2, #-1	;	points to hundreds digit					
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Conversion Routine (3 of 3)								
ADD LEA ADD LDR	•	, R3 okup100 , R4 , #0	<pre>; load digit ; convert to numb ; multiply by 100 ; adds 100's</pre>					
ASCIIBUF Lookup10	FILL xF BLKW 4 FILL 0 FILL 10	FDO	; -0x30					
Lookup100	FILL 0 FILL 10	0						
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