Programming - a skill for life!

Appendix to Let's build a compiler! containing examples of test programs and test data

- Testing Parse01 to Parse12
 Test programs and test data for Parts II and III of Let's build a compiler! by Jack Crenshaw
- 2. <u>Testing Interpreter01 and Interpreter02</u>

Test data for Part IV of Let's build a compiler! by Jack Crenshaw

3. <u>Testing Branch01 and</u> Branch02

> Test data and results for Part V of *Let's build a compiler!* by Jack Crenshaw

4. Testing Bool01, Branch03 and Branch04

Test program and tests for Part V of *Let's build a compiler!* by Jack Crenshaw

5. <u>Testing Scanner01 to</u> <u>Scanner04, KISS01 and</u> <u>KISS02</u>

Test test data and results for Part VII of Let's build a compiler! by Jack Crenshaw

6. <u>Testing TopDown01 and TopDown02</u>

Examples of test data and results for Part IX of *Let's build a compiler!* by Jack Crenshaw

- 7. Testing TINY01 to TINY10
 Test programs and test data for Part X of Let's build a compiler! by Jack Crenshaw
- 8. <u>Testing TINY11</u> Tests for Part XI of *Let's build a compiler!* by Jack Crenshaw
- Testing TINY11C, TINY11P
 and TINY12
 Examples of tests for Part X

Examples of tests for Part XII of *Let's build a compiler!* by Jack Crenshaw

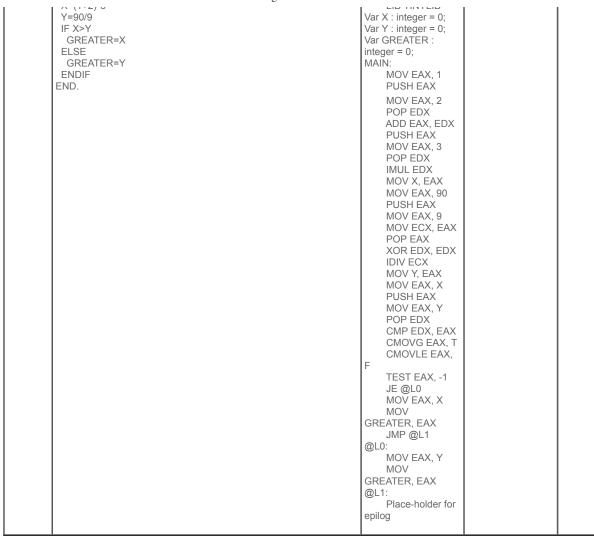
- Testing Procs02 to Procs08
 Examples of tests for Part XIII of Let's build a compiler! by Jack Crenshaw
- 11. Testing Types01 and Types02
 Examples of tests for Part XIV
 of Let's build a compiler! by
 Jack Crenshaw
- 12. Testing Main02 and Main03
 Test programs and test data for Part XVI of Let's build a compiler! by Jack Crenshaw

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Testing TINY11

We copied the generated code into a simple program to test it, then tabulated the results. We provide some examples of the generated code in the table.

Program	Input	Generated Code	Error Message	Res
TINY11	PROGRAM VAR I,PRODUCT BEGIN I=1 PRODUCT=1 WHILE i<5 i=i+1 PRODUCT=PRODUCT*i ENDWHILE END.	Place-holder for MASM start-up code LIB TINYLIB Var I: integer = 0; Var PRODUCT: integer = 0; MAIN: MOV EAX, 1 PUSH EAX MOV EAX, 5 POP EDX CMP EDX, EAX CMOVL EAX, T CMOVGE EAX, T CMOVGE EAX, T TEST EAX, -1 JE @L1 MOV EAX, 1 PUSH EAX MOV EAX, 1 POP EDX ADD EAX, EDX MOV I, EAX MOV EAX, 1 POP EDX ADD EAX, EDX MOV EAX, I POP E		120
TINY11	PROGRAM VAR INPUT BEGIN READ(INPUT) WRITE(INPUT+1) END.	Place-holder for MASM start-up code LIB TINYLIB Var INPUT: integer = 0; MAIN: CALL READ MOV INPUT, EAX MOV EAX, INPUT PUSH EAX MOV EAX, 1 POP EDX ADD EAX, EDX CALL WRITE Place-holder for		
TINY11	PROGRAM VAR INPUT1 BEGIN READ(INPUT) WRITE(INPUT) END.	epilog Var INPUT1 : integer = 0; MAIN:	Error: Undefined Identifier INPUT.	
TINY11	PROGRAM VAR X,Y,GREATER BEGIN X=(1+2)*3	Place-holder for MASM start-up code		10



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Lexical Scan Revisited

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