RESOLVI	E Verifying Compiler Activities #1	Name:	
			One CM:
To Do:	in a produce of the water		
• Cli	vigate to the RESOLVE Compiler's Web IDE ck <i>Components</i> button, then from dialog choose <i>F</i> Activities 101 through 104	Programs	
• An	swer prompting questions below as you do the ac-	tivities	
Activity_10	1_Reasoning_about_Assignments		
Activity 1a:	Why does <i>main</i> prove?		
Activity 2a:	Did anything unexpected occur?		
Activity 2b:	Write down <i>ensures</i> for K that proved:		
Activity 2c:	Write down <i>ensures</i> for K that did not prove:		
Activity 3+:	Write down one exploration you tried out:		
Activity_10	2_Reasoning_about_Design_by_Contract		
Activity 1a:	What is another good name for <i>Exchange</i> ?:		
Activity 1c:	How many VCs are there for <i>Exchange</i> ? Why?		
Activity 2:	Provide the code you wrote:		
	What is the difference between $Op_1 \& Op_2$?		
Activity 3:	Provide the contract you wrote:		
	(a) Does your contract include a <i>requires</i> ?		
	(b) Why or why not?		
	(c) Did your <i>ensures</i> have two conjuncts?		
	(d) If yes, tell how one conjunct could be eliminated		
4			
Activity 4+:	In the context of design-by-contract		
	What is the responsibility of:		
	(a) The called a paration?		
	(b) The called operation?		
	What benefit is provided to:		
	(c) The calling operation?		
	(d) The called operation?		

Activity 4+:	Compare := with :=: (a) What is the <i>ensures</i> for J := K; ?			
	(b) What is the <i>ensures</i> for J :=: K; ?			
Activity_104	4_Reasoning_about_If_Statements			
Activity 2a:	After replacing :=: with := if you uncommented the Confirm on line #31, Will both "Confirms" hold?			
Activity 3:	ty 3: (a) Assuming your new 3 rd variable is named 'Z', write down the Confirm that asserts that the outgoing 'X' holds the max value:			
	(b) Add additional code to make the outgoing 'Y' Describe the code you added:	holds the minimum value:		
	(c) What Confirm did you write to assert that 'Y'	holds the minimum value?		
	(d) Provide a Confirm that asserts the value of 'Z'	is between 'X' and 'Y'?		
Activity_104a_Reasoning_about_DBC_and_If_Statements				
Activity 3b:	What operation's <i>requires</i> clause cannot be confir	med by the verifier?		
Activity 4+:	(a) Write down your new <i>ensures</i> for Reorder:			
	(b) Take a shot at modifying <i>main</i> so that it verified Did you get it to verify?	es when calling Reorder_2.		

Activity_103_Reasoning_about_Swapping