

			Expectation	✓ = 1 pt
1	a. Vectorize Make Even Function	Set up	Program Development with appropriate: Problem ID, Problem Statement, Input Variable Definition, and Output Variable Definition	
2			Step 4: (1) Hand solutions/ appropriate test cases (2) Step plan: either a flow chart or a detailed step list for code	
3		Program Code	Clear program comments including: introductory section that form a useful help file, a listing variables, and identification of program logic	
4			Uses a loop with essentially correct setup Uses vector addressing to work through the elements in the vectors	
5			Function executes completely correctly	
6		Valid.	Validation: Program test to show that code works correctly on a vector input. Includes test of all branches of the code.	
7	b. Arbitrary Vector	Set up	Problem clearly laid out using Program Development Worksheet Goal of program presented, Inputs & Outputs for program listed (1-3)	
8			Step four on worksheet complete with a clear plan for the program (steps or a flow chart) and appropriate test cases	
9		Program Code	Clear program comments including: An introductory section that form a useful help file, a listing of variables, and identification of program logic	
10			Uses a for loop with essentially correct setup to step through a vector index	
11			Uses vector addressing to work through the elements in the vectors and apply the condition element-by-element	
12			Function executes completely correctly	
13	Valid.	Validation: Program test to show that code works correctly on a vector input. Includes test of all branches of the code.		
14	c. Fibonacci Sequence	Set up	Program Development with appropriate: Problem ID, Problem Statement, Input Variable Definition, and Output Variable Definition	
15			Step 4: (1) Hand solutions/ appropriate test cases (2) Step plan: either a flow chart or a detailed step list for code	
16		Program Code	Clear program comments including: introductory section that form a useful help file, a listing variables, and identification of program logic	
17			Program includes 3 inputs (i.e., the first two terms in the series and the total number of terms). Places first two values in series vector.	
18			For loop with substantially correct logic to add successive terms to the series.	
19			Program logic completely correct resulting in a vector of the correct Fibonacci Series.	
20	Valid.	Validation: test cases and comparison to reference calculation to prove the code and all its branches work correctly		
			Extra Credit (from next page) =	
			Total =	

			Expectation	✓ = 1 pt
1	d. Extra Credit Julian (Ordinal) Date	Set up	Program Development with appropriate: Problem ID, Problem Statement, Input Variable Definition, and Output Variable Definition	
2			Step 4: (1) Hand solutions/ appropriate test cases (2) Step plan: either a flow chart or a detailed step list for code	
3		Program Code	Clear program comments including: introductory section that form a useful help file, a listing variables, and identification of program logic	
4			Code complete and correct: Code will run and meet all requirements of the problem.	
5		Valid.	Validation: test cases and comparison to reference calculation to prove the code and all its branches work correctly	