Week 2 Quiz

9/10 points (90%)

Quiz, 10 questions

✓ Congratulations! You passed!

Next Item



1/1 points

1.

Suppose I define the following function in R

What is the result of running

1	cube(3)

in R after defining this function?

- A warning is given with no value returned.
- An error is returned because 'n' is not specified in the call to 'cube'
- The users is prompted to specify the value of 'n'.
- The number 27 is returned

Correct

Because 'n' is not evaluated, it is not needed even though it is a formal argument.



1/1 points 2.

The following code will produce a warning in R.

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Why?

- The syntax of this R expression is incorrect.
- The expression uses curly braces.
- You cannot set 'x' to be 0 because 'x' is a vector and 0 is a scalar.
- 'x' is a vector of length 10 and 'if' can only test a single logical statement.



There are no elements in 'x' that are greater than 5



1/1 points

3.

Consider the following function

If I then run in R

What value is returned?



10

Correct

Week 2 Quiz	Z
Quiz, 10 questions	<u> </u>
	4
	1 / 1 points
	4. Consider the following expression:
	1 x <- 5 2 y <- if(x < 3) { 3 NA 4 } else {
	5 10 6 }
	What is the value of 'y' after evaluating this expression?
	O NA
	<u> </u>
	10
	Correct
	5
	1/1

V

points

5.

9/10 points (90%)

Consider the following R function

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Quiz, 10 questions

```
h \leftarrow function(x, y = NULL, d = 3L)
 2
              z \leftarrow cbind(x, d)
 3
              if(!is.null(y))
 4
                        z <- z + y
 5
              else
 6
                        z \leftarrow z + f
               g <- x + y / z
 7
 8
              if(d == 3L)
 9
                        return(g)
10
              g <- g + 10
11
12
```

9/10 points (90%)

Which symbol in the above function is a free variable?

- 1		- 1
٨		
	_	

f

Correct

- _____ z
- d
- <u>و</u>



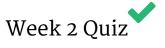
1/1 points

6.

What is an environment in R?

- a special type of function
- a list whose elements are all functions
- an R package that only contains data
- a collection of symbol/value pairs

Correct



1/1 points

9/10 points (90%)

Qu

uiz, 10 questions	7.				
	The R language uses what type of scoping rule for resolving free variables?				
		global scoping			
	0	lexical scoping			
	Correct				
		dynamic scoping			
		compilation scoping			
	×	0 / 1 points			
	8.				
	How are free variables in R functions resolved?				
	0	The values of free variables are searched for in the environment in which the function was called			
	This should not be selected				
		The values of free variables are searched for in the environment in which the function was defined			
		The values of free variables are searched for in the working directory			
		The values of free variables are searched for in the global environment			
		1/1			

points

9.

What is one of the consequences of the scoping rules used in R?

Week 2 Quiz		R objects cannot be larger than 100 MB	9/10 points (90%)				
		All objects can be stored on the disk					
		Functions cannot be nested					
	0	All objects must be stored in memory					
	Correct						
		1/1					
		points					
	10. In R, what is the parent frame?						
		It is always the global environment					
	0	It is the environment in which a function was called					
	Correct						
		It is the environment in which a function was defined					
		It is the package search list					
			_				





