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Week 2 Quiz

10 questions

1 point

1.

Suppose I define the following function in R

What is the result of running

```
1 cube(3)
```

in R after defining this function?

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

1 point

2.

The following code will produce a warning in R.

Why?

O The syntax of this R expression is incorrect.

0	The expression	uses curly	braces.

- 'x' is a vector of length 10 and 'if' can only test a single logical statement.
- O There are no elements in 'x' that are greater than 5
- You cannot set 'x' to be 0 because 'x' is a vector and 0 is a scalar.

```
1
point
```

3.

Consider the following function

If I then run in R

```
1 z <- 10
2 f(3)
```

What value is returned?

- **O** 16
- **O** 7
- **O** 10
- **O** 4

1 point

4.

Consider the following expression:

What is the value of 'y' after evaluating this expression?

- O NA
- **O** 3
- **O** 10
- **O** 5

1 point

5.

Consider the following R function

```
h \leftarrow function(x, y = NULL, d = 3L)
 1
 2
               z \leftarrow cbind(x, d)
 3
               if(!is.null(y))
 4
                        z <- z + y
 5
               else
 6
                        z \leftarrow z + f
 7
               g \leftarrow x + y / z
 8
               if(d == 3L)
 9
                        return(g)
10
               g < -g + 10
11
               g
12
     }
```

Which symbol in the above function is a free variable?

- \mathbf{O}
- \bigcirc 7
- \mathbf{O}
- **O** g

1 point

What is an environment in R?		
0	a special type of function	
0	a list whose elements are all functions	
0	a collection of symbol/value pairs	
0	an R package that only contains data	
1 point		
The R I	anguage uses what type of scoping rule for resolving free variables?	
0	global scoping	
0	compilation scoping	
0	lexical scoping	
0	dynamic scoping	
1 point 8. How are free variables in R functions resolved?		
0	The values of free variables are searched for in the global environment	
0	The values of free variables are searched for in the environment in which the function was defined	
0	The values of free variables are searched for in the environment in which the function was called	
0	The values of free variables are searched for in the working directory	

https://www.coursera.org/learn/r-programming/exam/R8pfM/week-2-quiz

1 point

9.		
	s one of the consequences of the scoping rules used in R?	
0	All objects must be stored in memory	
0	Functions cannot be nested	
0	R objects cannot be larger than 100 MB	
0	All objects can be stored on the disk	
1	*	
poin		
10.		
In R, w	hat is the parent frame?	
0	It is the environment in which a function was called	
0	It is the environment in which a function was defined	
0	It is the package search list	
0	It is always the global environment	
	10 questions unanswered	
Upgrade to submit		

