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Week 2 Quiz



9/10 points earned (90%)

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Quiz passed!



1/1 points

1.

Suppose I define the following function in R

```
cube <- function(x, n) {
     x^3
}</pre>
```

What is the result of running

```
cube(3)
```

in R after defining this function?

- The users is prompted to specify the value of 'n'.
- An error is returned because 'n' is not specified in the call to 'cube'
- The number 27 is returned

Correct Response

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

A warning is given with no value returned.

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0 / 1 points

2.

The following code will produce a warning in R.

Why?

- There are no elements in 'x' that are greater than 5
- The syntax of this R expression is incorrect.

Incorrect Response

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



1/1 points

3.

Consider the following function

If I then run in R

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

What value is returned?



10

Correct Response

-) 7
- 10

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1

Consider the following expression:

```
x <- 5
y <- if(x < 3) {
          NA
} else {
          10
}</pre>
```

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



3



10

Correct Response

O NA

5



1/1 points

5.

Consider the following R function

```
h <- function(x, y = NULL, d = 3L) {
    z <- cbind(x, d)
    if(!is.null(y))
        z <- z + y
    else
        z <- z + f
    g <- x + y / z
    if(d == 3L)
        return(g)
    g <- g + 10
    g
}</pre>
```

Which symbol in the above function is a free variable?



f

Correct Response



1/1 points

6.

What is an environment in R?



a collection of symbol/value pairs

Correct Response

- a list whose elements are all functions
- an R package that only contains data
- a special type of function

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~	1/1 points					
7.						
rne k	R language uses what type of scoping rule for resolving free variables?					
	compilation scoping					
O	lexical scoping					
Corr	rect Response					
	global scoping					
	dynamic scoping					
~	1 / 1 points					
8. How a	re free variables in R functions resolved?					
	The values of free variables are searched for in the global environment					
	The values of free variables are searched for in the working directory					
	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 environment in which the function was defined					
Corr	rect Response					
~	1 / 1 points					
9. What i	s one of the consequences of the scoping rules used in R?					
	Functions cannot be nested					
	All objects can be stored on the disk					
	R objects cannot be larger than 100 MB					
0	All objects must be stored in memory					
Corr	ect Response					

~	1 / 1 points	
10. In R, w	hat is the parent frame?	
	It is always the global environment	
	It is the package search list	
0	It is the environment in which a function was called	
Corre	ect Response	
	It is the environment in which a function was defined	

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