Week 2 Quiz

Quiz, 10 questions



Congratulations! You passed!

Next Item



1/1 point

Suppose I define the following function in R

```
cube <- function(x, n) {</pre>
2
            x^3
3
   }
```

What is the result of running

1	cube(3)

in R after defining this function?

The users is prompted to specify the value of 'n'.
The users is prompted to specify the value of

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

Correct

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



1/1

point

2.

The following code will produce a warning in R.

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Why?

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

Correct



1/1 point

3.

Consider the following function

If I then run in R

What value is returned?



10

Correct

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1/1 point

4.

Consider the following expression:

```
x <- 5
   y \leftarrow if(x < 3) {
3
            NA
   } else {
5
             10
  }
```

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

- 5
- 3
- 10

Correct

NA



1/1 point

5.

Consider the following R function

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```
Quiz, 10^{1}_{2} h <- function(x, y = NULL, d = 3L) {
       3
                    if(!is.null(y))
       4
                              z <- z + y
       5
                    else
                              z \leftarrow z + f
                    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?

O f

Correct

- g



1/1 point

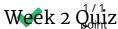
6.

What is an environment in R?

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

Correct

a special type of function



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	language uses what type of scoping rule for resolving free variables?		
	compilation scoping		
	dynamic scoping		
	global scoping		
0	lexical scoping		
Corr	rect		
~	1/1 point		
8.			
	re free variables in R functions resolved?		
	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		
Corr	rect		
	The values of free variables are searched for in the environment in which the function was called		
	The values of free variables are searched for in the working directory		
~	1/1 point		
9.			
What is one of the consequences of the scoping rules used in R?			
	R objects cannot be larger than 100 MB		
	All objects can be stored on the disk		

All objects must be stored in memory Week 2 Quiz

Quiz, Corpete stions

	Functions cannot be nested	
~	1 / 1 point	
10.		
In R, what is the parent frame?		
	It is the package search list	
	It is the environment in which a function was defined	
0	It is the environment in which a function was called	
Correct		
	It is always the global environment	



Р