Week 2 Quiz

Quiz, 10 questions

10/10 points (100%)

✓ Congratulations! You passed!

Next Item

Week 2 Qui	Z 1/1 point	10/10 points (100%)
	1. Suppose I define the following function in R	
	1 cube <- function(x, n) { 2	
	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 number 27 is returned	
	Correct Because 'n' is not evaluated, it is not needed even though it is a formal argument.	
	An error is returned because 'n' is not specified in the call to 'cube'	

A warning is given with no value returned.

Week 2 Quiz	
Quiz, 10 questions	

1/1 point

10/10 points (100%)

2.

The following code will produce a warning in R.

	x <- 1:10
2	if(x > 5) {
3	x <- 0
4	}
	•

Why?

	You cannot set 'x' to be 0 because 'x' is a vector and 0 is a scalar.
	The syntax of this R expression is incorrect.
\bigcirc	'x' is a vector of length 10 and 'if' can only test a single logical statement.
Corre	ect

- There are no elements in 'x' that are greater than 5
- The expression uses curly braces.

3 of 9

Week 2 Quiz

1/1 point

10/10 points (100%)

3. Consider the following function

1	f <- function(x) {
2	g <- function(y) {
3	y + z
4	}
5	z <- 4
6	x + g(x)
7	}

If I then run in R

What value is returned?

- () 4
- 10

Correct

- 7

Week 2 Quiz

1/1 point

10/10 points (100%)

4.

Consider the following expression:

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

O NA

10

Correct

5

3

5 of 9

Week 2 Quiz

1/1 point

10/10 points (100%)

5. Consider the following R function

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

Which symbol in the above function is a free variable?

 \bigcirc

f

Correct

) z

O c

() I

g

Week 2 Quiz	Z	1/1 point	10/10 points (100%)
	6. What is	an environment in R?	
	\bigcirc	a special type of function	
	\bigcirc	a list whose elements are all functions	
	\bigcirc	an R package that only contains data	
	\bigcirc	a collection of symbol/value pairs	
	Corre	ct	
	~	1/1 point	
	7. The R la	inguage uses what type of scoping rule for resolving freees?	
		dynamic scoping	
		lexical scoping	
	Corre	ct	
		global scoping	
		compilation scoping	

8. How are free variables in R functions resolved? The values of free variables are searched for in the environment in which the function was defined Correct The values of free variables are searched for in the working directory The values of free variables are searched for in the global environment The values of free variables are searched for in the environment in which the function was called Values of free variables are searched for in the environment in which the function was called All objects cannot be larger than 100 MB All objects must be stored in memory Correct All objects can be stored on the disk	Week 2 Qui	Z	1/1 point	10/10 points (100%)
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Functions cannot be nested			All objects must be stored in memory	
		Corre	ect	
All objects can be stored on the disk			Functions cannot be nested	
		\bigcirc	All objects can be stored on the disk	

Week 2 Quiz	1/1 point	10/10 points (100%)
10.		
In R, w	hat is the parent frame?	
	It is the package search list	
	It is the environment in which a function was called	
Corr	rect	
	It is always the global environment	
	It is the environment in which a function was defined	
3 P F		