#### Week 2 Quiz

Quiz, 10 questions

1 point

1.

Suppose I define the following function in R

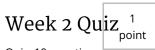
```
1 cube <- function(x, n) { | 2 x^3 } |
```

What is the result of running



in R after defining this function?

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



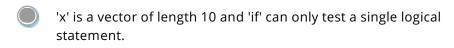
Quiz, 10 questions

2.

The following code will produce a warning in R.

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

#### Why?



The	expression	uses	curly	braces.

		_	_
	You cannot set 'x' to be 0 because	use 'x' is a vector and 0 is a sca	lar.

## Week 2 Quiz 1 point

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3.

Consider the following function

If I then run in R

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

What value is returned?

- 16
- 10
- 7

3 of 7

# Week 2 Quiz 1 point

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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?

- 5
- 3
- O NA
- 10

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## Week 2 Quiz 1 point

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5

Consider the following R function

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

Which symbol in the above function is a free variable?

- f
- Z
- d
- O 8

1 point

6.

What is an environment in R?

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

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7.	Diameters when the of coming will favorable for societies
rne	R language uses what type of scoping rule for resolving free variables?
	global scoping
	lexical scoping
	compilation scoping
	dynamic scoping
p. 8.	1 oint
	v are free variables in R functions resolved?
	The values of free variables are searched for in the environment in which the function was called
C	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 defined

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Quiz, 10 questions	point
	9.
`	What is one of the consequences of the scoping rules used in R?
	Functions cannot be nested
	R objects cannot be larger than 100 MB
	All objects can be stored on the disk
	All objects must be stored in memory
-	
	1 point
	10.
ĺ	In R, what is the parent frame?
	It is the environment in which a function was called
	O It is always the global environment
	It is the environment in which a function was defined
	It is the package search list
	Upgrade to submit
7	$\bigcirc$ $\square$