The "Data Science" Specialization

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#### Feedback - Week 2 Quiz

Help

You submitted this quiz on Fri 11 Jul 2014 11:56 AM CEST. You got a score of 10.00 out of 10.00.

# **Question 1** Suppose I define the following function in R cube <- function(x, n) {</pre> x^3 } What is the result of running cube(3) in R after defining this function? **Your Answer** Score **Explanation** A warning is given with no value returned. The number 27 is returned 1.00 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' The users is prompted to specify the value of 'n'. Total 1.00 / 1.00

### **Question 2**

The following code will produce a warning in R.

Why?

	Score	Explanation
~	1.00	
	1.00 /	
	1.00	
	•	1.00 /

### **Question 3**

Consider the following function

```
f <- function(x) {
          g <- function(y) {
               y + z
          }
          z <- 4
          x + g(x)
}</pre>
```

If I then run in R

z <- 10			
f(3)			

What value is returned?

Your Answer		Score	Explanation
O 7			
O 16			
<b>0</b> 4			
<b>•</b> 10	~	1.00	
Total		1.00 / 1.00	

### **Question 4**

Consider the following expression:

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

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

Your Answer		Score	Explanation
<ul><li>10</li></ul>	~	1.00	
○ NA			
<b>5</b>			
<b>3</b>			
Total		1.00 / 1.00	

#### **Question 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?

Your Answer		Score	Explanation
• f	~	1.00	
○ z			
O d			
O L			
○ g			
Total		1.00 / 1.00	

#### **Question 6**

What is an environment in R?

Your Answer Score Explanation

a special type of function

an R package that only contains data	
a list whose elements are all functions	
a collection of symbol/value pairs	<b>✓</b> 1.00
Total	1.00 / 1.00

## **Question 7**

The R language uses what type of scoping rule for resolving free variables?

Your Answer		Score	Explanation
global scoping			
lexical scoping	~	1.00	
O dynamic scoping			
ocompilation scoping			
Total		1.00 / 1.00	

## **Question 8**

How are free variables in R functions resolved?

Your Answer		Score	Explanation
<ul> <li>The values of free variables are searched for in the working directory</li> </ul>			
The values of free variables are searched for in the environment in which the function was defined	<b>~</b>	1.00	
The values of free variables are searched for in the environment in which the function was called			

<ul> <li>The values of free variables are searched</li> <li>environment</li> </ul>	ed for in the global
Total	1.00 /
	1.00

Question 9		
What is one of the consequences of the scoping rule	es used in R?	
Your Answer	Score	Explanation
All objects can be stored on the disk		
Functions cannot be nested		
All objects must be stored in memory	<b>✓</b> 1.00	
R objects cannot be larger than 100 MB		
Total	1.00 / 1.00	

Question 10			
In R, what is the parent frame?			
Your Answer		Score	Explanation
It is the environment in which a function was called	~	1.00	
<ul> <li>It is the environment in which a function was defined</li> </ul>			
It is always the global environment			
It is the package search list			
Total		1.00 / 1.00	

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