Quiz 3 Section 2 #0000000992 | On October 15, 2016 17:37	
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What is the output of apply function?
`my_matrix <- rbind(c(1,5,4,3),c(0,1,-1,3),2)`
`modify_values <- function(x,n1,n2=5) {sum(x)+n1-n2}`
`apply(my_matrix,2,modify_values,10)`
	○	**8 13 10 13**

	○	18 8 13
	○	8 11 8 11
	○	Error

What is the output of below codes according to below list?
>word.list[order(sapply(word.list, length))]
`> word.list`
`$I`
`[1] 1 4`
`$think`
`[1] 2`
`$therefore`
`[1] 3`
`$am`
`[1] 5`
	○	**$think**
		[1] 2
		$therefore
		[1] 3
		$am
		[1] 5
		$I
		[1] 1 4

	○	$I [1] 1 4 $think [1] 2 $therefore [1] 3 $am [1] 5
	○	$I [1] 2 $think [1] 1 $therefore [1] 1 $am [1] 1
	○	I think therefore am 2 1 1 1
The list above is created. I want to store the even numbers in this list into a vector called evenvec. Which one of the following code will not work? `mylist<-list(vec1=1:3,vec2=4:6,vec3=6:8)`	○	**evenvec <- c(mylist[vec1]** **[2],max(mylist[vec2]),min(mylist[vec2]),mylist[vec3][-2])**
	○	evenvec <- c(median(mylist[[1]]),mylist[[2]][-2],mylist[[3]] [c(1,3)])
	○	evenvec <- c(mylist$vec1[2],mylist$vec2[c(1,3)],mylist$vec3[-2])
	○	evenvec <- c(mylist[["vec1"]] [2],max(mylist[["vec2"]]),min(mylist[["vec2"]]),mylist[["vec3"]] [-2])

Two lists showing us information about two students in the class. We want to create a vector which contains membership data. This vector shows us who is a member or not. Which of the following code will not work?
`s1<-list(name="Hakan",Age=19,Member=T)`
`s2<-list(name="Deniz",Age=20,Member=F)`
	○	**memvec <- c(s1$Member,s2$Member)**
		names(memvec) <- (s1["name"],s2["name"])

	○	memvec <- c(s1$Member,s2$Member) names(memvec) <- c("Hakan","Deniz")
	○	memvec <- c(s1[["Member"]],s2[["Member"]]) names(memvec) <- c(s1$name,s2$name)
	○	memvec <- c(s1$Member,s2$Member) names(memvec) <- c(s1[["name"]],s2[["name"]])
	○	**$m** **[1] 1** **[[2]]** **[1] 2**

		[[3]] **[1] 3**
What is the output of code below? `x <- list(m=1,2,3)`	○	$m [1] 1 2 3
	○	[[1]] [1] 1 [[2]] [1] 2 [[3]] [1] 3
	○	[[1]] [1] 1 2 3

We have a list called as Can. Which of the following give the same result?
`Can<-list(name="Can", occupation="student", "married",age=19)`
 	
`I. Can$occupation`
`II. Can[[2]]`
`III. Can[2]`
`IV. Can[["occupation"]]`
`V. Can[[occupation]]`
	○	**I-II-IV**

	○	I-III-IV
	○	I-II-V
	○	I-III-V
John has pencils in two boxes A and B. Each box contains red and blue pencils, respectively. For example, in box B, there are 2 red pencils and 5 blue pencils. John buys a new red pencil and puts it in box A. Help John to update his list. `pencils<-list(A=c(1,8),B=c(2,5))`	○	**pencils[[1]][1] <- 2**
	○	pencils[1][1] <- 2
	○	pencils[["A"]] <- 2
	○	pencils["A"][1] <- 2

What is the output of stranger_things[[3]]?
`stranger_things <- list(name="Stranger Things", year=2016, rating=9.0)`
`stranger_things$season <- 2`
`stranger_things$year <- NULL`
	○	**2**

	○	Error
	○	$season [1] 2
	○	NULL

John Nash is a math teacher. His age is 50 and his wife's name is Alicia. And we create JohnNash list which includes his name, age, occupation and Wife's name. And John's wife gives birth to a twin. Their names are Charles and Martin. After a while Martin dies. And John has schizophrenia. If we update JohnNash list according to the last events, which codes give us the correct answer?
`JohnNash <- list(name="John",age=50,occupation="math teacher",wife="Alicia")`
`JohnNash$children <- c("Charles","Martin")`
	○	**JohnNash$children <- JohnNash$children[-2]**
		JohnNash[["Disease"]] <- "Schizophrenia"

	○	JohnNash$children[2] <- FALSE JohnNash$6 <- "Schizophrenia"
	○	JohnNash$children[2] <- NULL JohnNash[["Disease"]] <- "Schizophrenia"
	○	JohnNash[[5]][2] <- FALSE JohnNash$6<- "Schizophrenia"

Which of the following codes can give the list below?
`> Oliver`
`$height`
`[1] 1.7`
 	
`$age`
`[1] 35`
 	
`[[3]]`
`[1] "professor"`
 	
`[[4]]`
`[1] "teacher"`
 	
`[[5]]`
`[1] "doctor"`
	○	**Oliver <- list(height=1.70, age=35)**
		Oliver <- c(Oliver,c("professor","teacher"))
		Oliver <- c(Oliver,list("doctor"))

	○	Oliver <- list(height=1.70, age=35) Oliver <- list(Oliver,c("professor","teacher")) Oliver <- list(Oliver,list("doctor"))
	○	Oliver <- list(height=1.70, age=35) Oliver$3 <- "professor" Oliver$4 <- "teacher" Oliver[[5]]<- "doctor"
	○	Oliver <- list(height=1.70, age=35) Oliver[["3"]] <- "professor" Oliver[["4"]] <- "teacher" Oliver[["5"]]<- "doctor"