

Developing Data Products: Quiz 3

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Question 1

Which of the following items is required for an R package to pass R CMD check without any warnings or errors?

- unit tests
- example data sets
- *DESCRIPTION* file
- a demo directory

Solution

- *DESCRIPTION* file

Question 2

Which of the following is a generic function in a fresh installation of R, with only the default packages loaded?

- colSums
- dgamma
- *mean*
- lm

Solution

```
library(pryr)
ftype(colSums)
```

```
## [1] "internal"
```

```
ftype(dgamma)
```

```
## [1] "function"
```

```
ftype(mean)
```

```
## [1] "s3"      "generic"
```

```
ftype(lm)
```

```
## [1] "function"
```

- *mean*

Question 3

What function is used to obtain the function body for an S4 method function?

- *getMethod()*
- showMethods()
- getS3method()
- getClass()

Answer

- *getMethod()*

Question 4

Which one of the following functions must be defined in order to deploy an R function on yhat?

- model.require
- model.load
- *model.predict*
- model.transform

Answer

- *model.predict*

Question 5

Please download the R package [DDPQuiz3](#) from the course web site. Examine the createmean function implemented in the R/ sub-directory. What is the appropriate text to place above the createmean function for Roxygen2 to create a complete help file?

Solution

```
#' This function calculates the mean
#'  
#' @param x is a numeric vector  
#' @return the mean of x  
#' @export  
#' @examples  
#' x <- 1:10  
#' createmean(x)
```