

packaging assignment

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packaging

part a.

```
# Create folder
dir.create("forloop")
```

Warning in dir.create("forloop"): 'forloop' already exists

```
# Set working directory to the new folder
setwd("forloop")
```

part b.

```
# Create R sub-directory
dir.create("R")
```

Warning in dir.create("R"): 'R' already exists

```
# Create an R script inside the R sub-directory
file.create("R/practice.R")
```

[1] TRUE

part c.

```
col_means <- function(df) {
  means <- numeric(ncol(df))
  for (i in seq_along(df)) {
    column <- df[[i]]
    means[i] <- sum(column, na.rm = TRUE) / sum(!is.na(column))
  }
  return(means)}

```

```
# Let's test the function col_means()

# Create a sample data frame
test_df <- data.frame(
  a = c(1, 2, 3, NA),
  b = c(4, 5, NA, 7),
  c = c(NA, NA, 9, 10))

# Call col_means()
col_means(test_df)
```

[1] 2.000000 5.333333 9.500000

part d.

```
count_na <- function(vec) {  
  na_count <- 0  
  for (i in seq_along(vec)) {  
    if (is.na(vec[i])) {na_count <- na_count + 1}}  
  return(na_count)}  
}
```

```
# Let's test the function count_na()
```

```
# Create a vector with NAs
```

```
vec <- c(1, NA, 3, NA, 5)
```

```
# Call count_na()
```

```
count_na(vec)
```

```
[1] 2
```