## Random Forest Exercise 1

## Part A: Interpreting the Software Output

Run the Rscript RF Heart1.R.

The Random Forest confusion matrix on Heart.csv data was presented:

An internet search shows that some researchers thought the rows of the matrix represent actuals while other researchers thought the columns of the matrix represent actuals.

- 1. Verify if the rows represent actuals or columns represent actuals.
- 2. Explain the meaning of the class.error.

## Part B: Checking the Default Parameter Settings.

- 3. Execute Random Forest with different settings on Heart.csv to predict AHD and save the respective OOB error in a table. How does the default settings for B and RSF size perform in terms of OOB error? Recommend a way to use/set the B and RSF size in your future work.
  - B = 25, RSF size = 1
  - B = 25, RSF size = floor(sqrt(M)) = 3
  - B = 25, RSF size = M = 13
  - B = 100, RSF size = 1
  - B = 100, RSF size = floor(sqrt(M)) = 3
  - B = 100, RSF size = M = 13
  - B = 500, RSF size = 1
  - B = 500, RSF size = floor(sqrt(M)) = 3
  - B = 500, RSF size = M = 13