Week 14 Assignment

2024-04-23

```
## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr 1.1.4
                       v readr 2.1.5
## v forcats 1.0.0
                     v stringr 1.5.1
## v ggplot2 3.4.4
                      v tibble
## v lubridate 1.9.3
                        v tidyr
                                    1.3.1
## v purrr
              1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
## i Use the conflicted package (<a href="http://conflicted.r-lib.org/">http://conflicted.r-lib.org/</a>) to force all conflicts to become error
## Attaching package: 'foreach'
##
##
## The following objects are masked from 'package:purrr':
##
       accumulate, when
##
## Loading required package: iterators
## Loading required package: parallel
2. Use apply functions (30 points)
(2a)
##
           [,1]
## [1,] 1.000000
## [2,] 2.449490
## [3,] 3.316625
## [4,] 4.000000
## [5,] 4.582576
## [6,] 5.099020
(2b)
##
           [,1]
## [1,] 1.000000
## [2,] 2.449490
## [3,] 3.316625
## [4,] 4.000000
## [5,] 4.582576
## [6,] 5.099020
```

```
3. Use foreach (30 points)
## Rows: 500 Columns: 2
## -- Column specification ------
## Delimiter: ","
## chr (1): species
## dbl (1): lengths
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
(3a)
## [1] 24341.68 27017.90 67453.38 22114.19 53884.76 52026.34
(3b)
## [1] 24341.68 27017.90 67453.38 22114.19 53884.76 52026.34
(3c)
## [1] 24341.68 27017.90 67453.38 22114.19 53884.76 52026.34
4. Forest Change through Time (30 points)
## Rows: 266 Columns: 35
## -- Column specification -------
## Delimiter: ","
## chr (2): Country Name, Country Code
## dbl (32): 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, ...
## lgl (1): 2022
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
(4a)
## [1]
      (4b)
      ## [1]
                                               1.0
(4c)
```

[1] 0.0 -832420.0 0.0 -275433.8 -132104.7 1.0