MSMS 105: Practical

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26 November, 2024

Question

Consider the following setup:

| | 2 | 3 | |
|---|---|---|---|
| 4 | | 2 | 1 |
| 3 | 1 | | |
| | 4 | 1 | 3 |

Write R program to fill in the blank cells such that each of $\{1, 2, 3, 4\}$ appears only once in each row and each column.

• R Program

```
mat <- matrix(c(NA, 2, 3, NA, 4, NA, 2, 1, 3, 1, NA, NA, NA, 4, 1, 3),
              nrow = 4, ncol = 4, byrow = TRUE)
mat
        [,1] [,2] [,3] [,4]
##
## [1,]
          NA
                2
                      3
## [2,]
           4
               NA
                      2
                          1
## [3,]
           3
                1
                          NA
                    NA
## [4,]
                4
          NA
```

A <- 1:4

```
del <- function(vec){
  indices <- c()
  for (i in 1:length(vec)) {
    indices[i] <- which(A == vec[i])
  }
  return(A[-indices])
}</pre>
```