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package main

import (
    "errors"
    "fmt"
    "os"
    "strings"
)

func WriteToFile(filePath, stuffToWrite string) {
    f, err := os.OpenFile(filePath, os.O_APPEND|os.O_CREATE|os.O_WRONLY, 0644)
    if err != nil {
        panic(err.Error())
    }
    _, err = f.Write([]byte(stuffToWrite))
    if err != nil {
        panic(err.Error())
    }
}

func Pw(filePath, stuffToWriteAndPrint string) {
    WriteToFile(filePath, stuffToWriteAndPrint)
    fmt.Print(stuffToWriteAndPrint)
}

func DeleteFile(filePath string) {
    _, err := os.Open(filePath)
    if errors.Is(os.ErrNotExist, err) {
        fmt.Printf("No file found to delete on path: %v\n", filePath)
    }

    _, err = os.Stat(filePath)
    if err == nil {
        err = os.Remove(filePath)

        if err != nil && err != os.ErrNotExist {
            panic(err.Error())
        }
    }
}
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38     }
39     return
40 }
41 fmt.Println("No output file found to delete")
42 }
43
44 func CreateMatrixString(matrix [][]float64) (matrixAsString string) {
45     strB := strings.Builder{}
46     //Find out the longest number to print
47     numLen := 0
48     for i := 0; i < len(matrix); i++ {
49         for j := 0; j < len(matrix[i]); j++ {
50             str := fmt.Sprintf("%v", matrix[i][j])
51             if len(str) > numLen {
52                 numLen = len(str)
53             }
54         }
55     }
56     //Print each number and fill in gaps to match numLen
57     for i := 0; i < len(matrix); i++ {
58         for j := 0; j < len(matrix[i]); j++ {
59             var numAsStringLen int
60             num := matrix[i][j]
61             numAsStringLen = len(fmt.Sprintf("%v", num))
62             strB.Write([]byte(fmt.Sprintf("%v", num)))
63             if numAsStringLen < numLen {
64                 strB.Write([]byte(strings.Repeat(" ", numLen-numAsStringLen)))
65             }
66             if j+1 == len(matrix[i]) {
67                 strB.Write([]byte("\n"))
68             } else {
69                 strB.Write([]byte(" "))
70             }
71         }
72     }
73     return strB.String()
74 }
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