

## `tukey_iris_safe`

What it does:

this function determines which rows (out of an expected numeric matrix) are outliers in all columns by the Tukey rule. Essentially, it runs the other function `tukey.outlier` on all columns. This was based on the buggy example in class but I fixed it. The difference in the original code used `&&` which only checks first but instead it should be using `&` to check all. I also checked that the argument is a numeric matrix, and that it's not empty.

Input:

- x. Expects a numeric matrix. Will stop and throw error if not a matrix, or not numeric.

Output:

A logical vector of length `nrow(x)`. Each value is TRUE or FALSE indicating whether that row is an outlier by the Tukey rule in all columns.

Why I made it:

We had to do a debugging and defensive programming example. This is an example where the logical bug in the loop can be determined and solved and where I can add basic checks to make the function not just crash (or worse, do the wrong thing or silently) when the wrong input is presented.