

Exercise: Mata functions

Write a Mata function “ownfunc” (no Stata program required) that selects all elements from a vector which are larger than 10 and then multiplies every third element of the resulting vector. The function should display both the resulting vector (i.e. the vector only containing values larger than 10) and the calculated product. Add all declarations.

Example:

If the vector is $x = \{11, 2, 41, 70, 5, 60, 100, 22\}$, the resulting vector is $y = \{11, 41, 70, 60, 100, 22\}$ and the function should calculate the solution of $70 * 22$.