To conduct model checking and comparison analyses on the CFA model with one latent variable (factor):

* Run the model in “One Factor CFA.bug” for with 3 chains for 5500 iterations, monitoring the parameters
* Save the output via the “coda” function in BUGS. Place the files “coda1.txt”, “coda2.txt”, “coda3.txt”, and “codaIndex.txt” in the “coda files” folder. These are used in the model checking component.
* Run the model in “One Factor CFA with CPO.bug” for with 3 chains for 5500 iterations, monitoring “inv.p.x”
* Save the output via the “coda” function in BUGS. Rename the files “codaforCPO1.txt”, “codaforCPO2.txt”, “codaforCPO3.txt”, and “codaforCPOIndex.txt” and place them in the “coda files” folder. These are used in the model comparison component.
* Run “Governing Code for CFA One Latent Variable Model Checking and Comparison.R”, which will call other R code.