Data Depression Anxiety and Stress Scale Class Assignment

Depression: Questions 3, 5, 10, 13, 16, 17, 21

Anxiety: Questions 2, 4, 7, 9, 15, 19, 20

Stress: 1, 6, 8, 11, 12, 14, 18

Program a 3-factor model of the DASS (bonus if you saved it from last time!).

Put your fit indices into the table below.

Add a second order latent variable that predicts all three factors. Include a picture of this model.

Put your fit indices in the table below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Model | X2 | DF | RMSEA | SRMR | CFI |
| 3-factor model |  |  |  |  |  |
| 2nd order 3-factor model |  |  |  |  |  |

Looking at the critical ratio of differences, are there any two parameters that you might set as the same? (you can just explain here, don’t have to include the output).

Run Bayesian estimation for this model. How many samples did you run before it converged?

Include estimates of the loadings for the 2nd order paths.

|  |  |  |
| --- | --- | --- |
| Loading | ML Estimation | Bayesian Estimation |
| Depression 🡨 2nd Order |  |  |
| Anxiety 🡨 2nd Order |  |  |
| Stress 🡨 2nd Order |  |  |

Do they seem very different?

Include one posterior plot (with first and last checked). Does it seem like the estimation converged well?

Include one autocorrelation plot. Does the plot indicate that you did NOT have autocorrelation?

Include one trace plot. Does this plot look appropriate for your random walk?