ClassPad II Help Series	Casio Education Australia - supporting Australian teachers	www.casio.edu.shriro.com.au	Author	Charlie Watson
CP945	Smoothing Time Series using the program mavII		Date	April 2015
			CPII OS	02.00.2000.0000

*Before starting this activity you will need the small, free program **mavII**, from www.charliewatson.com/classpad.*

Enter the time series data shown in list1 and list2.

Start the Program app, select the program **mavII** and tap the play button.
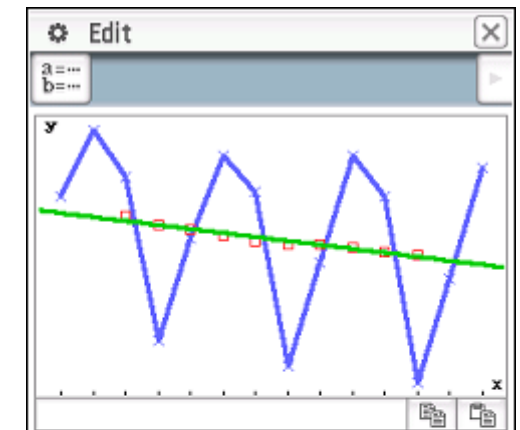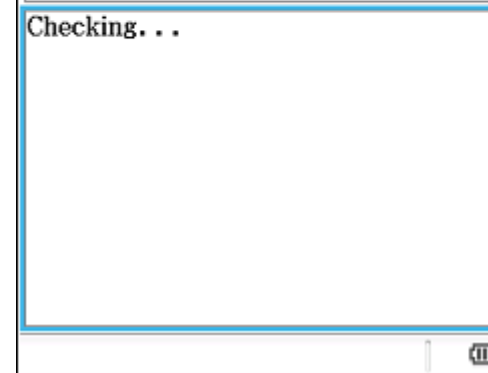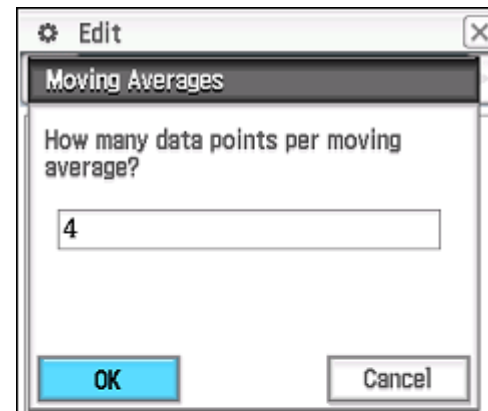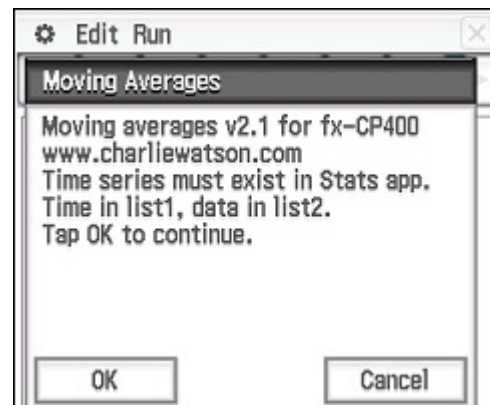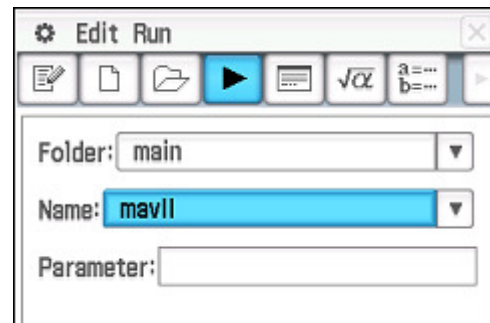
Note the introductory screen.

Enter the required moving average and tap OK.

The program calculates the required moving averages, plots the original data (blue xy-plot), the moving averages (red squares) and the regression line for the moving averages (green line).

Regression coefficients are also displayed.

Tap the green play button to continue.

Eqn of line (t v MA)

$\hat{y}=ax+b$
a=−3.854545455
b=548.0090909
Correlation
r=−0.9768997473

To continue, tap play ↓

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Residuals are calculated and seasonal components displayed.
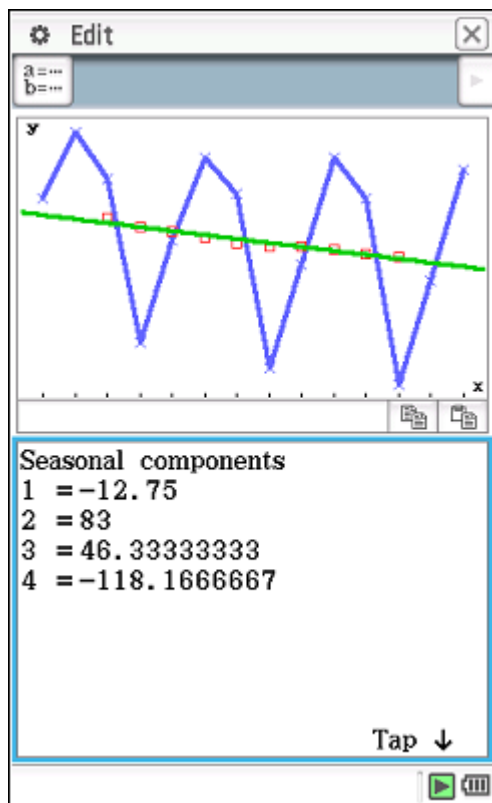
Tap the green play button to continue.

If a prediction is required, enter 1, otherwise 2 for no and tap OK.

If predicting, enter the x-value for the prediction and tap OK.

The future value is predicted, including seasonal adjustment.

If not predicting, then the program displays a summary of the contents of lists 3 to 6 now in the Statistics app.

Back in the Statistics app, the calculated values can be seen.