

0504 Time Series Analysis

Assessment: Time Series Analysis R and Python Questions

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Correct answers: 13 / 13

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Attempt#: 2

What is the purpose of the R function ts?

- To make a time series stationary
- To check if a time series is stationary
- To create a time series object

Correct answer

To create a time series object

The function in R which helps to determine the number of times time series should be differenced to make it stationary is:

 $^{\circ}$ diff

• ndiff

Correct answer

ndiff



```
^{\circ} order = c (1,1,2)
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 $^{\circ}$ order = c (1,2,1)

Correct answer

order = c(2,1,1)

For the command in R

model- arima (timeseries, order=c(1,2,1)) coef (model)

The output will display the values of:

- Estimated parameters
- O Predicted values

Correct answer

Estimated parameters

In R, interpretation of the output Best model: ARIMA(0,1,1) is:

- Differencing is accompanied by MA term
- Oifferencing is accompanied by AR term

Correct answer

Differencing is accompanied by MA term

A seasonal ARIMA model in R is built using the function:

arima

	° sarima
	Correct answer arima
ls '	the following statement true or false?
In	R, one can specify the value of number of AR terms in the arima function as a nu
mk	per between 1 and 3.
	TrueFalse
	Correct answer False
	Feedback
	That is correct! Well done!
	the following statement true or false? The diff function in Python creates a new ne series of lagged values.
	○ True ● False
	Correct answer False
	Feedback
	That is correct! Well done!

Is the following statement true or false? In the Python ARIMA function, the order of differencing should be at least one.

 $^{\circ}$ True

False

Correct answer

False

Feedback

• That is correct! Well done!

Is the following statement true or false?

Python has the built in function "forecast", which gives predicted values using the AR IMA model.

• True

 $^{\circ}$ False

Correct answer

True

Feedback

• That is correct! Well done!

Is the following statement true or false? The ARIMA function in Python requires a minimum of 24 values to fit the model.

 $^{\circ}$ True

• False

	Correct answer False	
	Feedback • That is correct! Well done!	
In I	the following statement true or false? Python, second order differencing is obtained by applying the diff function on first der differenced time series. True True False	
	Correct answer True	
	Feedback • That is correct! Well done!	
Is the following statement true or false? The diff function applied on first order differenced time series gives a lag of order 2 i Python.		
(True False	
	Correct answer False	
	Feedback	

• That is correct! Well done!