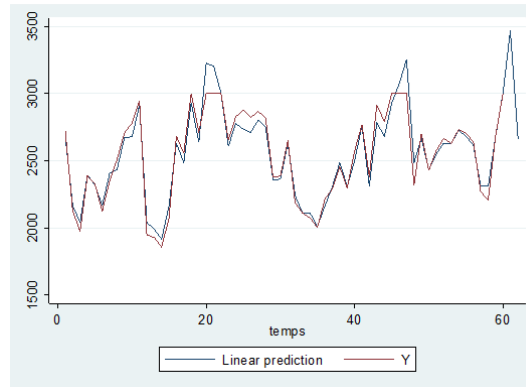


Tobit regression	Number of obs	=	60
	LR chi2(3)	=	229.66
	Prob > chi2	=	0.0000
Log likelihood = -275.65718	Pseudo R2	=	0.2941

```
0 left-censored observations
52 uncensored observations
8 right-censored observations at y >= 3000
```



```
.
. * 2 l'application des MCO
.
. regress y x1 x2 x3
```

Source	SS	df	MS	Number of obs	=	60
Model	6094635.24	3	2031545.08	F(3, 56)	=	298.86
Residual	380662.093	56	6797.53737	Prob > F	=	0.0000
Total	6475297.33	59	109750.802	R-squared	=	0.9412
				Adj R-squared	=	0.9381
				Root MSE	=	82.447

y	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]
x1	-31.95356	11.44578	-2.79	0.007	-54.88222 -9.024898
x2	17.83772	.6596155	27.04	0.000	16.51635 19.15909
x3	156.0019	60.45055	2.58	0.013	34.90492 277.0989
_cons	1594.516	34.80522	45.81	0.000	1524.792 1664.239

```
. predict ymco, xb
```

```
.
. * Les coefficients du modèle tous significativement différents de 0 sont biaisés.
.
. twoway (tsline ymco y)
```

```
.
. * Le calcul de la prévision
. * Sachant que x1,61= 1 ; x2,61 = 98 et x3,61=1
. * Sachant que x1,62= 0 ; x2,61 = 60 et x3,61=0
.
. *La prévision pour le jour 61 est données par :
.
. gen y61= - 27.69*1 + 20.50*98 + 186.23*1+1473.64
```

```
. display y61
3641.1799
```

```
.
. *La prévision pour le jour 62 est données par :
.
. gen y62= - 27.69*0 + 20.50*60 + 186.23*0+1473.64
```

```
. display y62
2703.6399
```

end of do-file

```
. graph save Graph "P:\nicet001\Desktop\exercices  
bourbonnais\Chapitre12.EX1-EX2-EX3\C12EX3\Graph2.gph"  
(file P:\nicet001\Desktop\exercices bourbonnais\Chapitre12.EX1-EX2-EX3\C12EX3\Graph2.gph  
saved)
```

```
. do "C:\Users\nicet001\AppData\Local\Temp\STD05000000.tmp"
```

```
. twoway (tsline yajusté y)
```

```
.  
end of do-file
```

```
. graph save Graph "P:\nicet001\Desktop\exercices  
bourbonnais\Chapitre12.EX1-EX2-EX3\C12EX3\Graph1.gph"  
(file P:\nicet001\Desktop\exercices bourbonnais\Chapitre12.EX1-EX2-EX3\C12EX3\Graph1.gph  
saved)
```

```
. exit, clear
```