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name: <unnamed>
log: C:\Users\xshi.PRIMO\Box Sync\teaching\econ410\exam1_analysis.log
log type: text
opened on: 18 Oct 2016, 11:14:47

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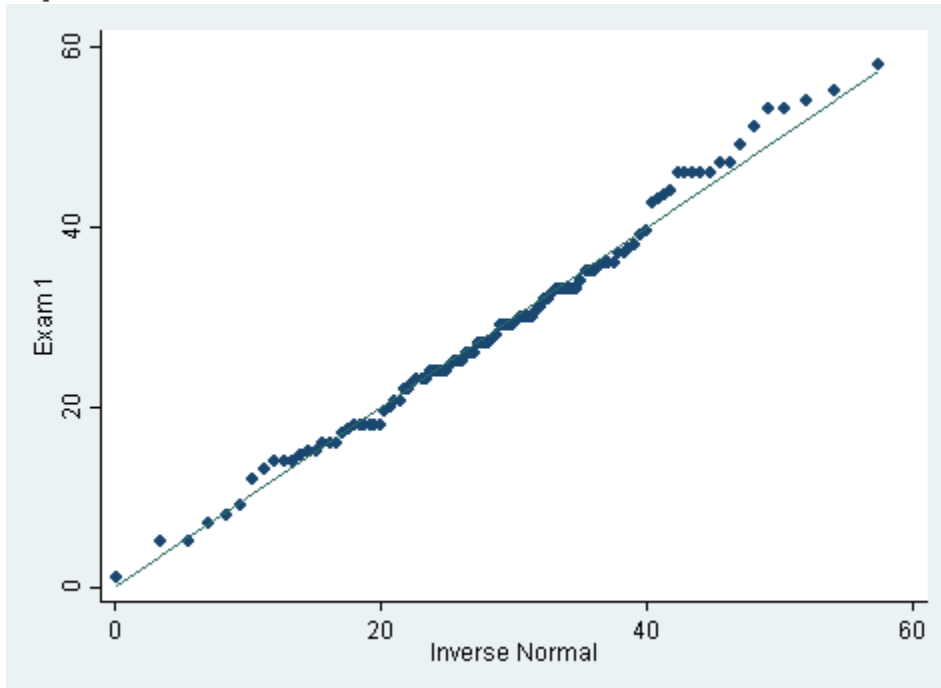
. *Summary statistics of midterm scores for students who took the exam. Scores are out of 60.

```
. sum exam1 if exam1>0, det
```

Exam 1					
Percentiles		Smallest			
1%	5	1			
5%	9	5			
10%	14	5	Obs		105
25%	20	7	Sum of Wgt.		105
50%	28		Mean		28.72381
		Largest	Std. Dev.		12.17777
75%	36	53			
90%	46	54	Variance		148.298
95%	51	55	Skewness		.2309411
99%	55	58	Kurtosis		2.668715

. *The scores are approximately normally distributed. See the qq plot of the quantile of the exam score against the quantiles of a normal distribution with the same mean and variance.

```
. qnorm exam1 if exam1>0
```



. *The exam score is correlated with problem set submission. In the following regression table, sub1only equals 1 if the student submitted PS1 but not PS2, sub2only is defined similarly, and sub12 equals 1 if the student submitted both

problem sets.

```
. reg exam1 sublonly sub2only sub12 if exam1>0
```

Source	SS	df	MS	Number of obs =	105
Model	1759.5169	3	586.505633	F(3, 101) =	4.34
Residual	13663.4736	101	135.281917	Prob > F =	0.0064
				R-squared =	0.1141
				Adj R-squared =	0.0878
				Root MSE =	11.631
Total	15422.9905	104	148.297985		

exam1	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
sublonly	12.58333	7.507827	1.68	0.097	-2.310176	27.47684
sub2only	15.41667	7.874275	1.96	0.053	-.2037774	31.03711
sub12	20.20325	6.83694	2.96	0.004	6.640602	33.7659
_cons	10.33333	6.715205	1.54	0.127	-2.987826	23.65449

```
. *Note that this regression may not reflect causality. (Think about why.)
```

```
. log close
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```

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log: C:\Users\xshi.PRIMO\Box Sync\teaching\econ410\exam1_analysis.log
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log type: text
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closed on: 18 Oct 2016, 11:23:17
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