

## PREDICT VIRALITY – EXERCISE

### Basic Statistics:

n = 24

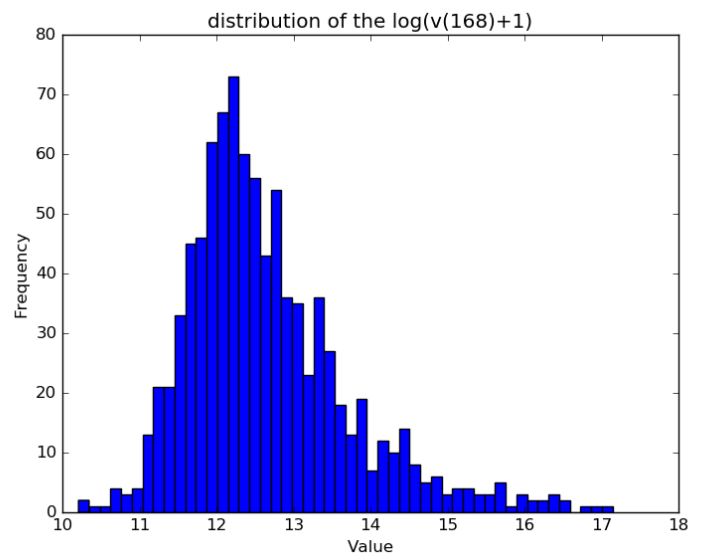
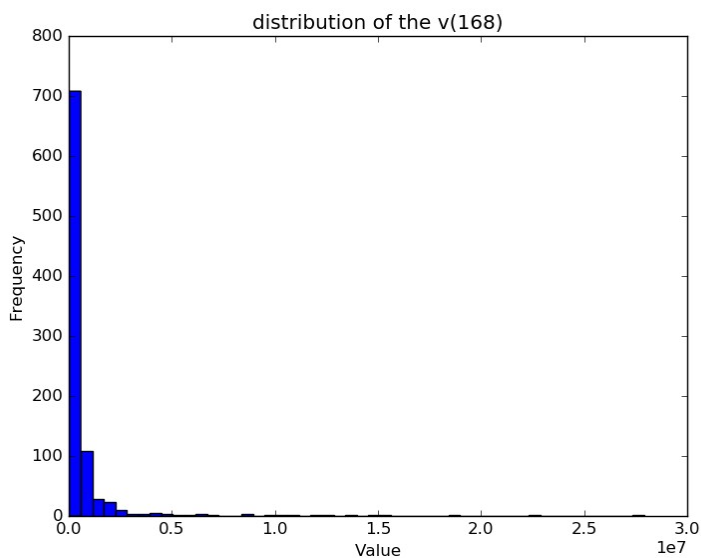
Mean value = 376765.517467  
Median value = 194357.5  
Standard deviation = 923142.428323  
Range = 15263466  
Kurtosis = 137.691960074

n = 72

Mean value = 613303.341703  
Median value = 237417.5  
Standard deviation = 1653066.35504  
Range = 22890539  
Kurtosis = 85.9188239299

n = 168

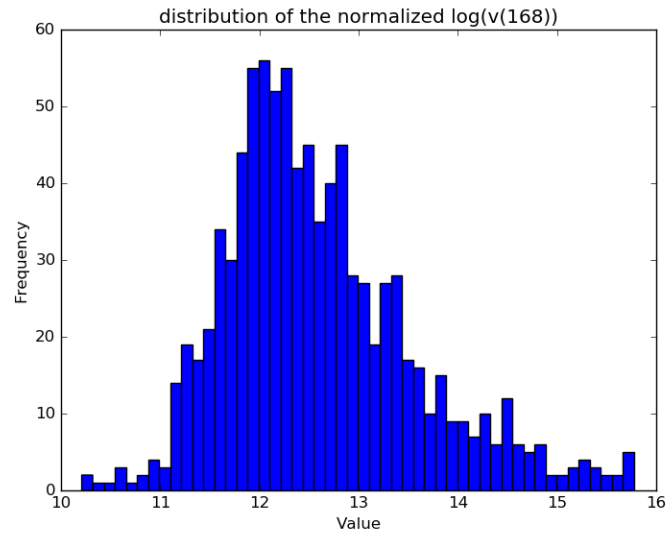
Mean value = 743209.837336  
Median value = 252287.0  
Standard deviation = 2006867.48178  
Range = 27871098  
Kurtosis = 70.5533867564



As we can see, distribution of  $v(168)$  is very irregular.  
Distribution of log transformed looks more “Gaussian”.

### Removing outsiders:

Mean value: 12.6547238564  
Standard deviation: 1.06419725854  
3-sigma values: [9.4621320808015525, 15.847315632044715]

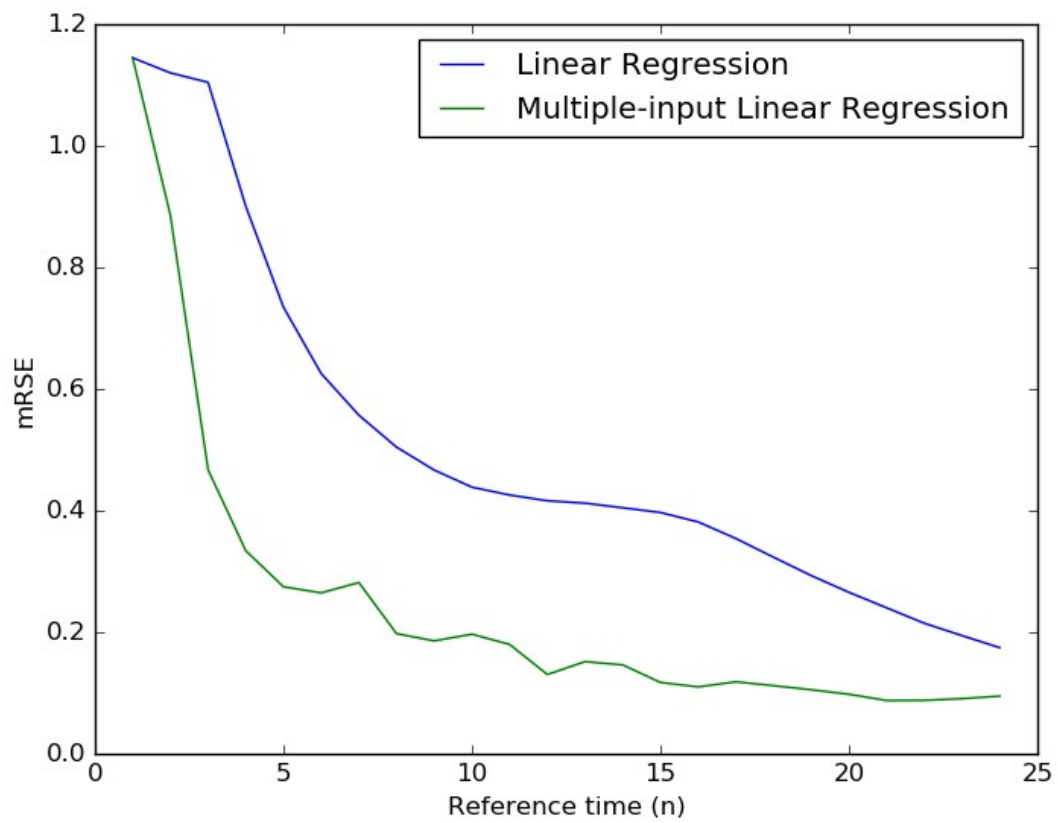


### Correlation coefficients:

n = 1 : 0.254537927904  
 n = 2 : 0.784769091433  
 n = 3 : 0.839769859523  
 n = 4 : 0.855707613377  
 n = 5 : 0.868397449686  
 n = 6 : 0.880234466249  
 n = 7 : 0.890877743533  
 n = 8 : 0.901029037145  
 n = 9 : 0.909913787351  
 n = 10 : 0.916680721227  
 n = 11 : 0.921825217879  
 n = 12 : 0.926514229853  
 n = 13 : 0.930555346821  
 n = 14 : 0.934296861281  
 n = 15 : 0.937993613195  
 n = 16 : 0.941416070544  
 n = 17 : 0.944743309964  
 n = 18 : 0.947513604639  
 n = 19 : 0.949909681318  
 n = 20 : 0.952153630818  
 n = 21 : 0.954276447604  
 n = 22 : 0.956258069182  
 n = 23 : 0.958027343346  
 n = 24 : 0.959683838288

**Plot the mRSE values for  $n \in (1, 24)$  computed on the test dataset:**

- raw views:



- log transformed:

