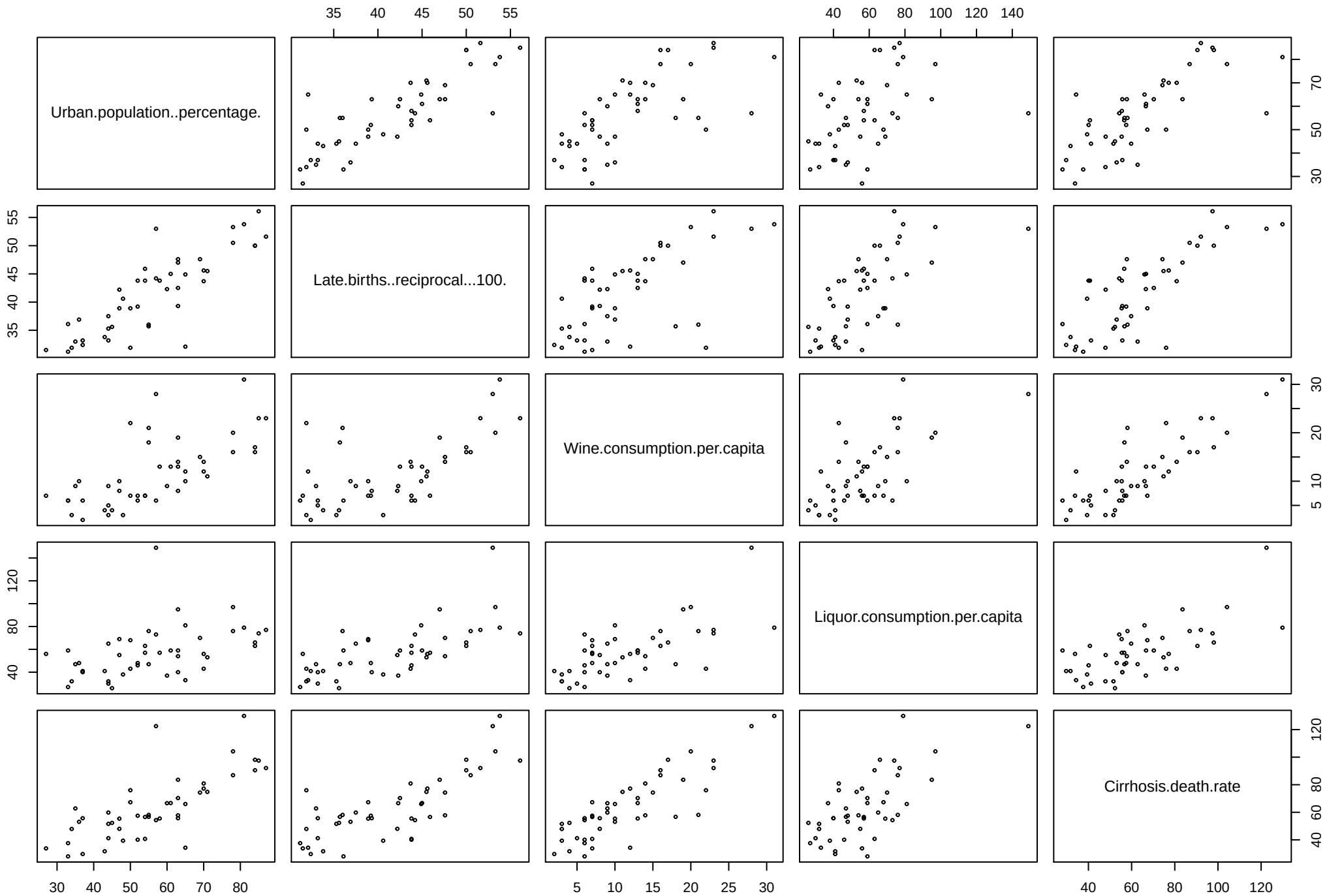
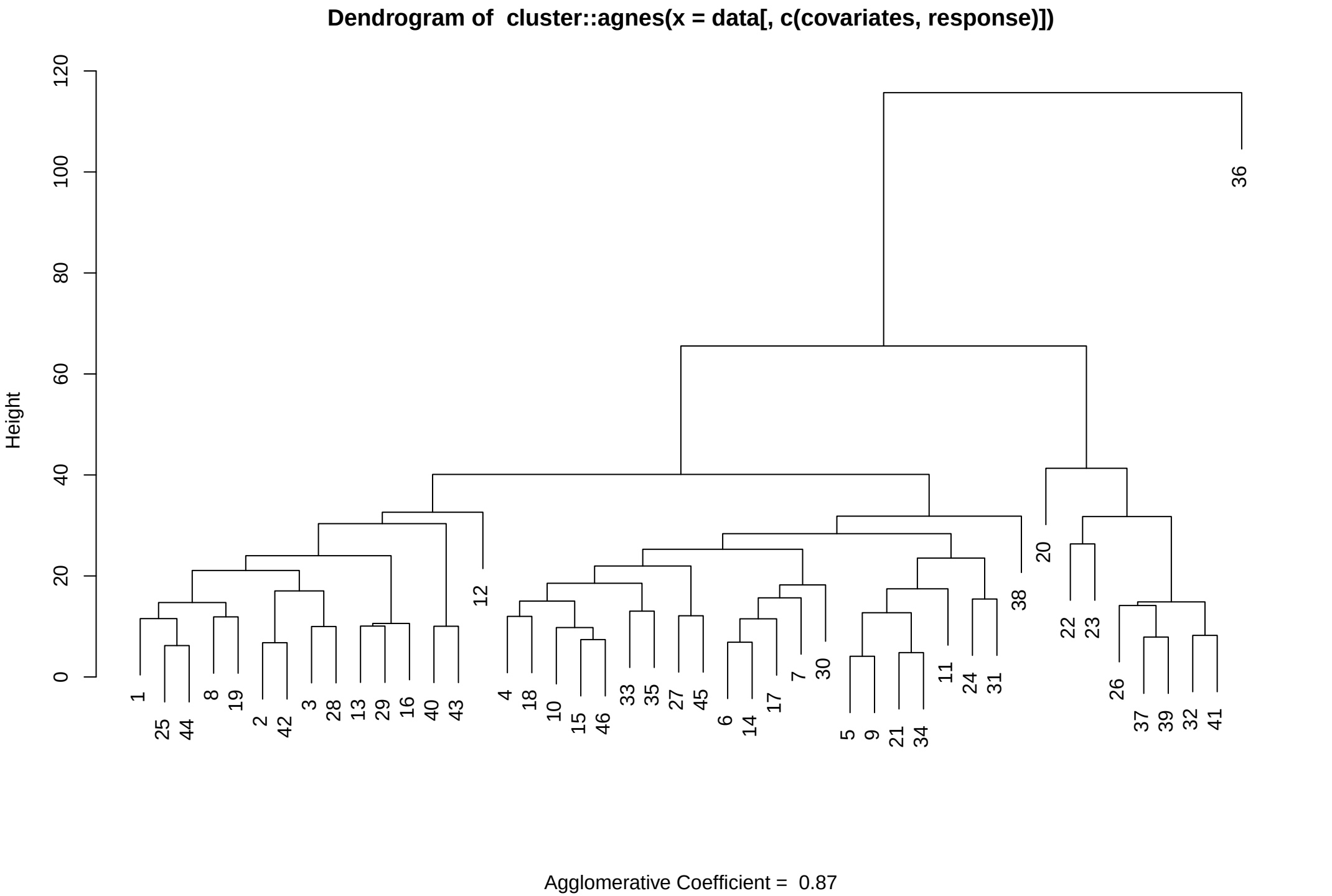
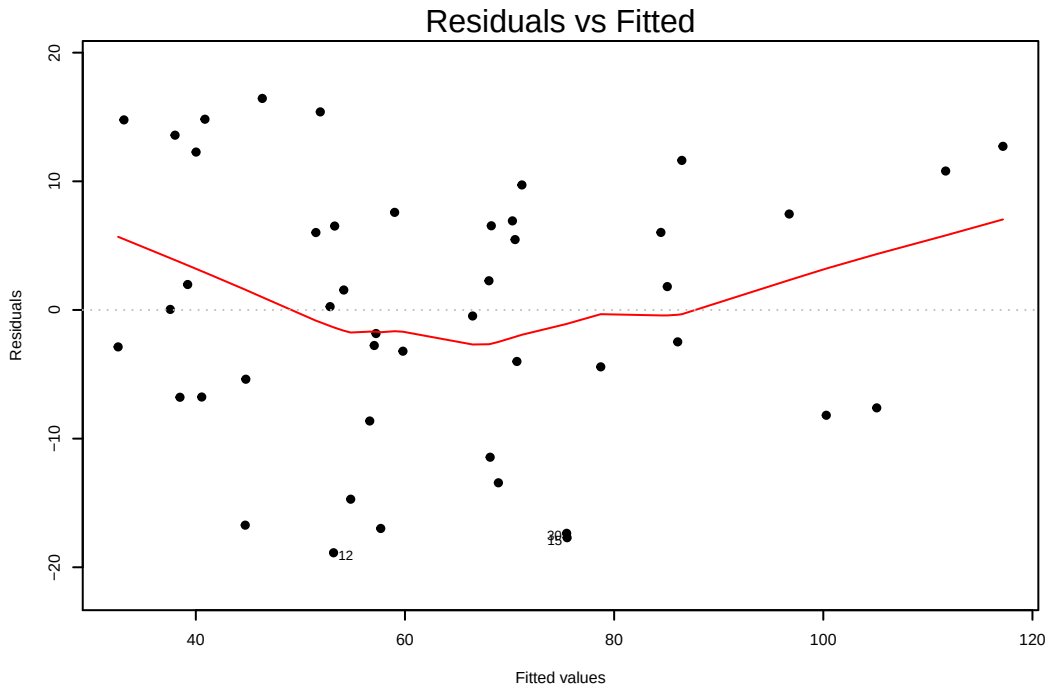
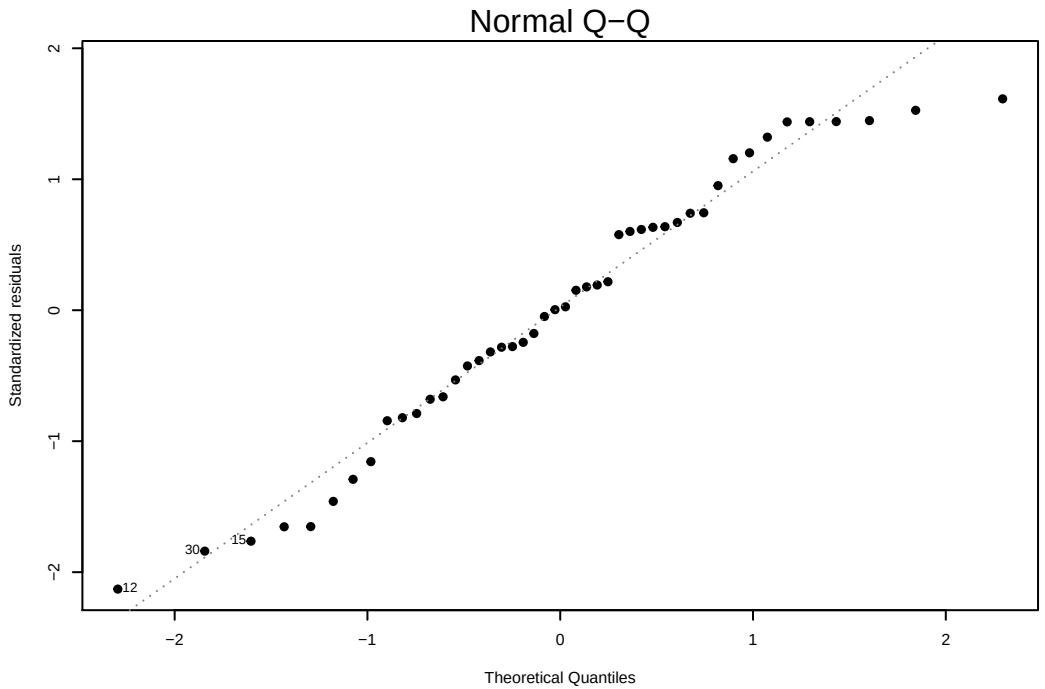
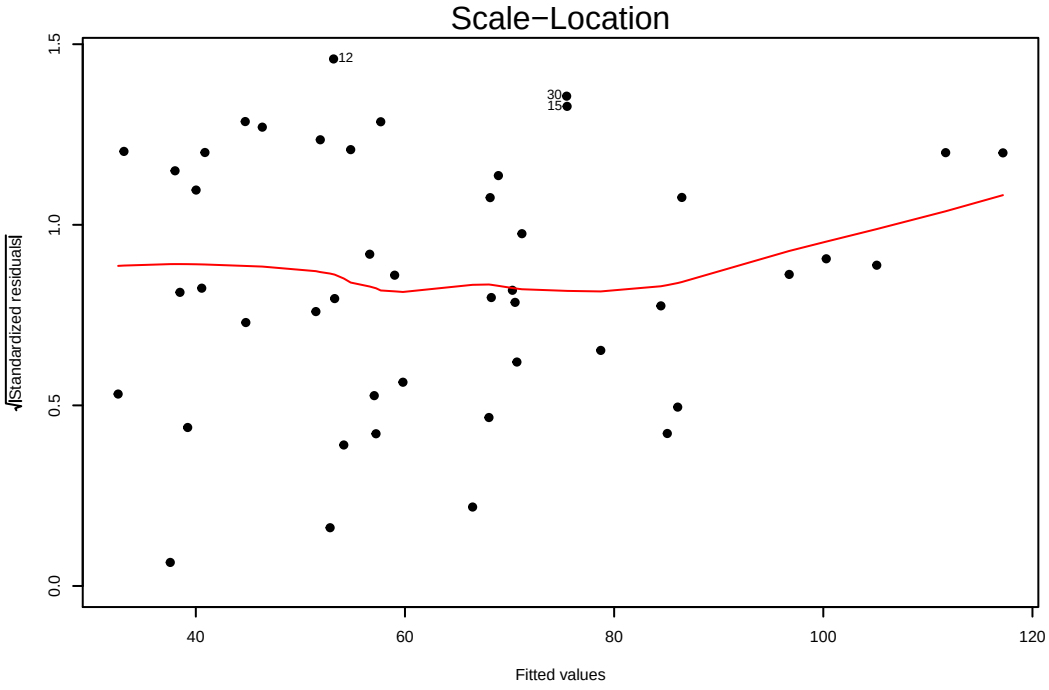
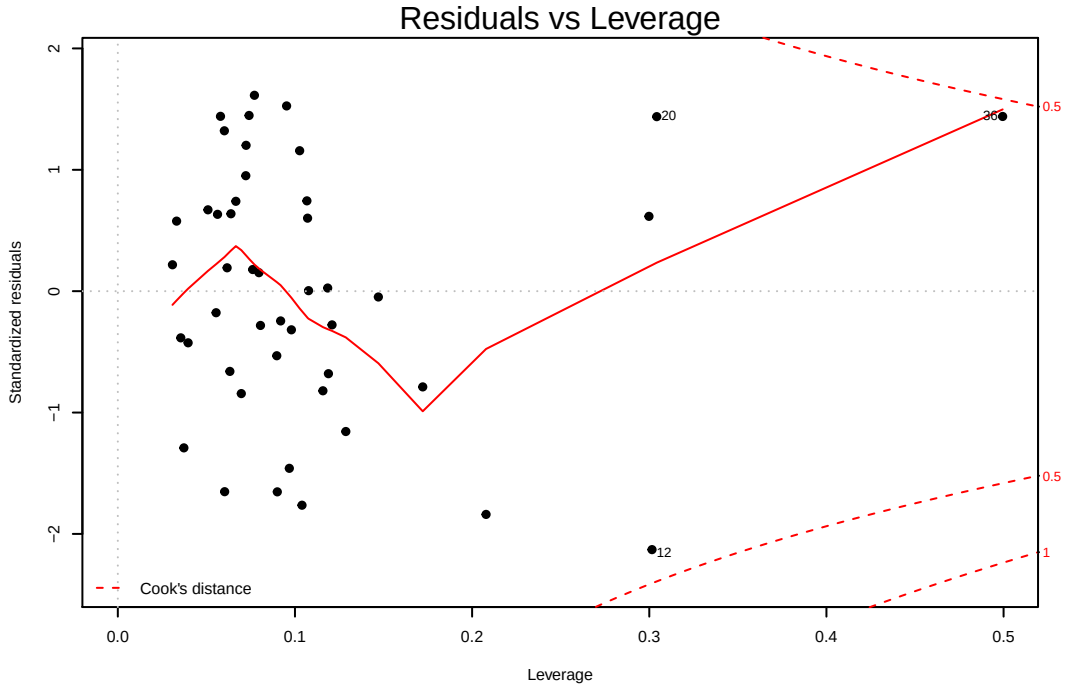

Urban.population..percentage.
Late.births..reciprocal...100.
Wine.consumption.per.capita
Liquor.consumption.per.capita
Cirrhosis.death.rate

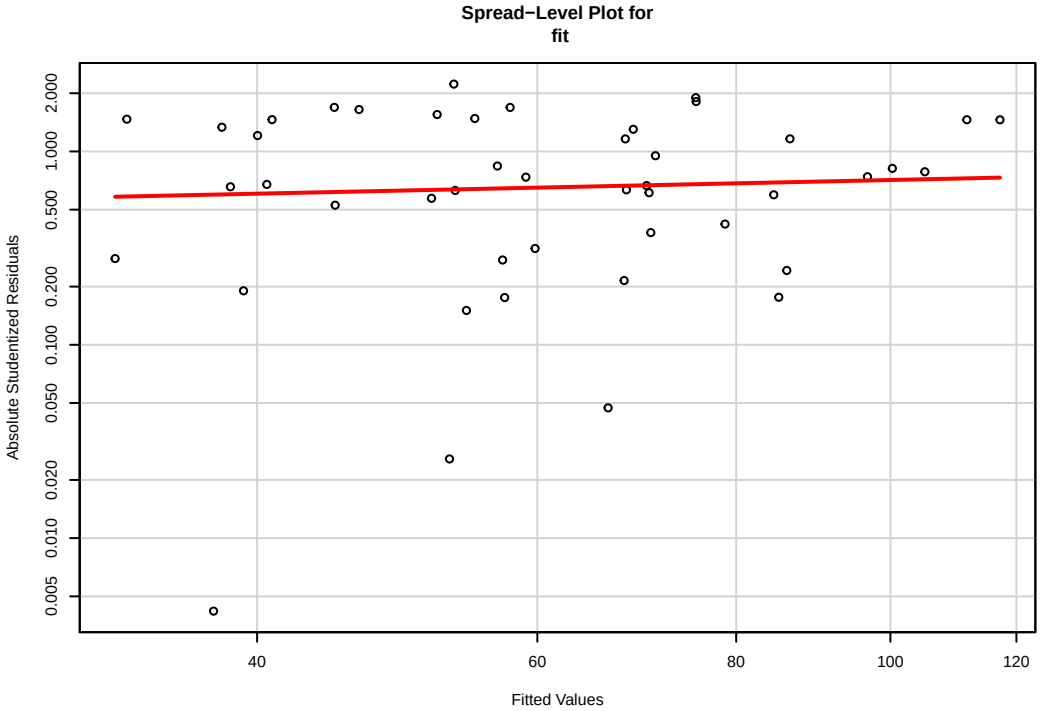

Dendrogram of cluster::agnes(x = data[, c(covariates, response)])
Height
0
20
40
60
80
100
120
1
25
44
8
19
2
42
3
28
13
29
16
40
43
12
4
18
10
15
46
33
35
27
45
6
14
17
7
30
5
9
21
34
11
24
31
38
20
22
23
26
37
39
32
41
36
Agglomerative Coefficient = 0.87

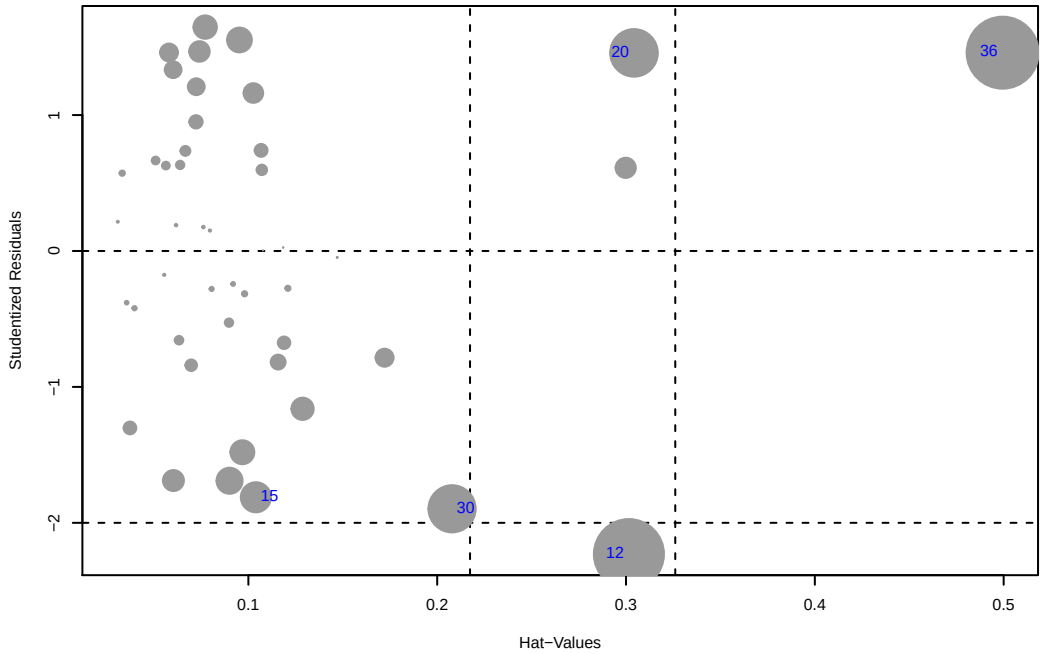

Residuals vs Fitted
Residuals
Fitted values
20
10
0
−10
−20
40
60
80
100
120
12
15
30

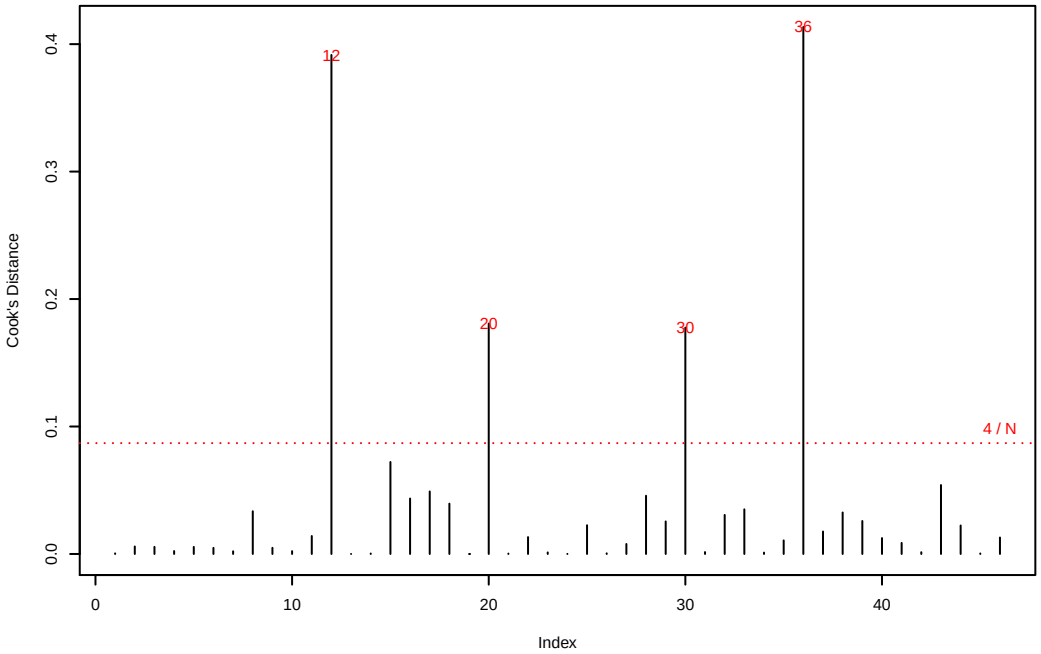

Normal Q−Q
Standardized residuals
Theoretical Quantiles
2
1
0
−1
−2
12
15
30

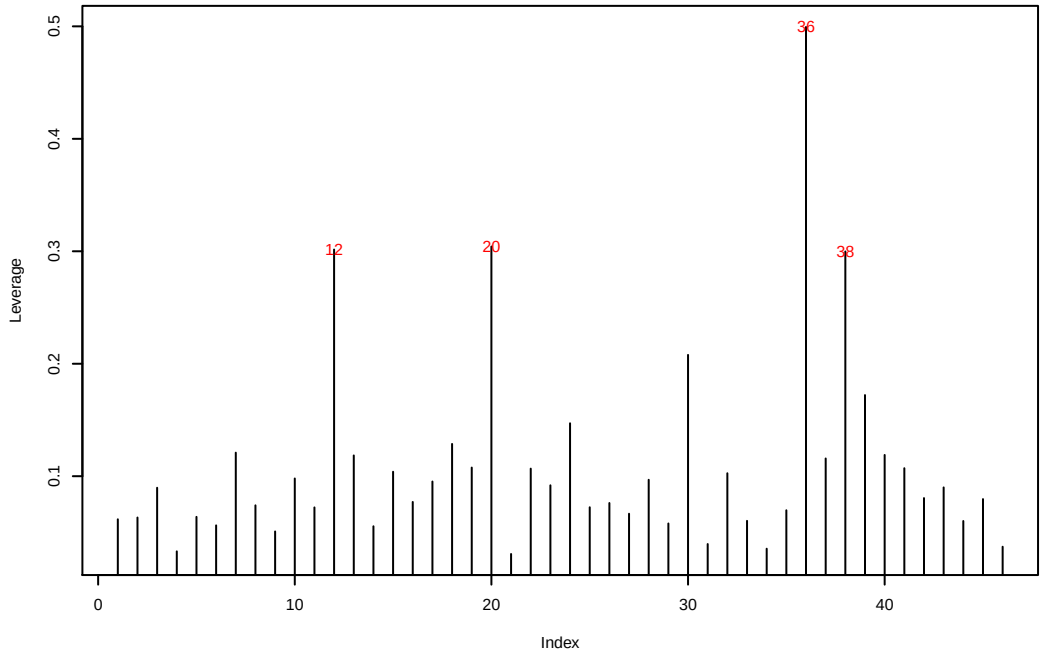

Scale−Location
√|Standardized residuals|
Fitted values
1.5
1.0
0.5
0.0
40
60
80
100
120
12
15
30

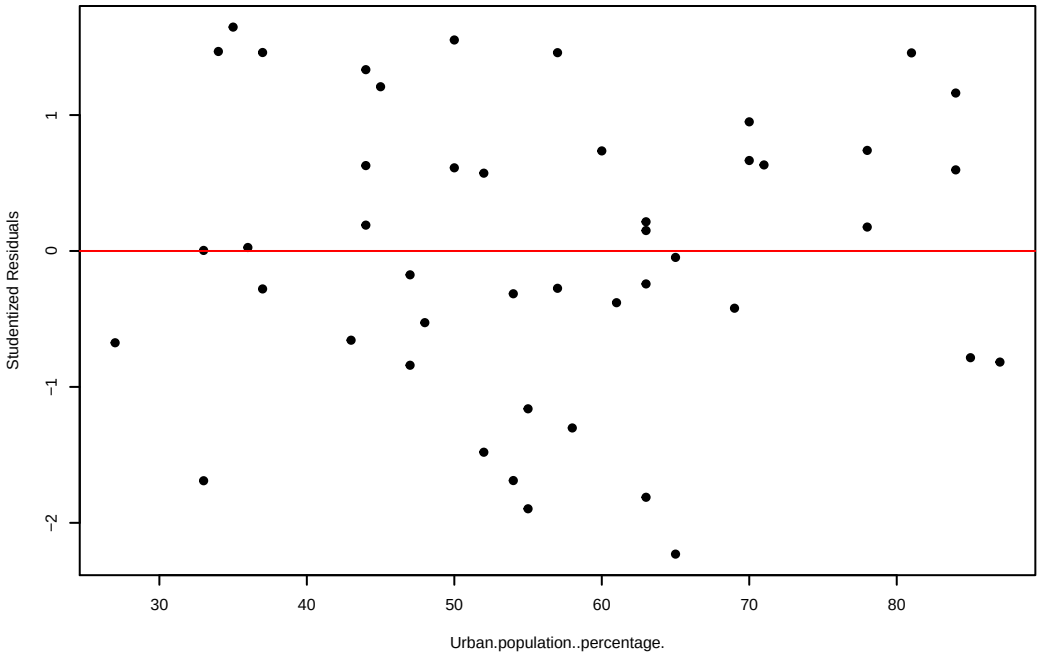

Residuals vs Leverage
Standardized residuals
Leverage
Cook's distance
2
1
0
−1
−2
0.0
0.1
0.2
0.3
0.4
0.5
0.5
0.5
1
12
20
30

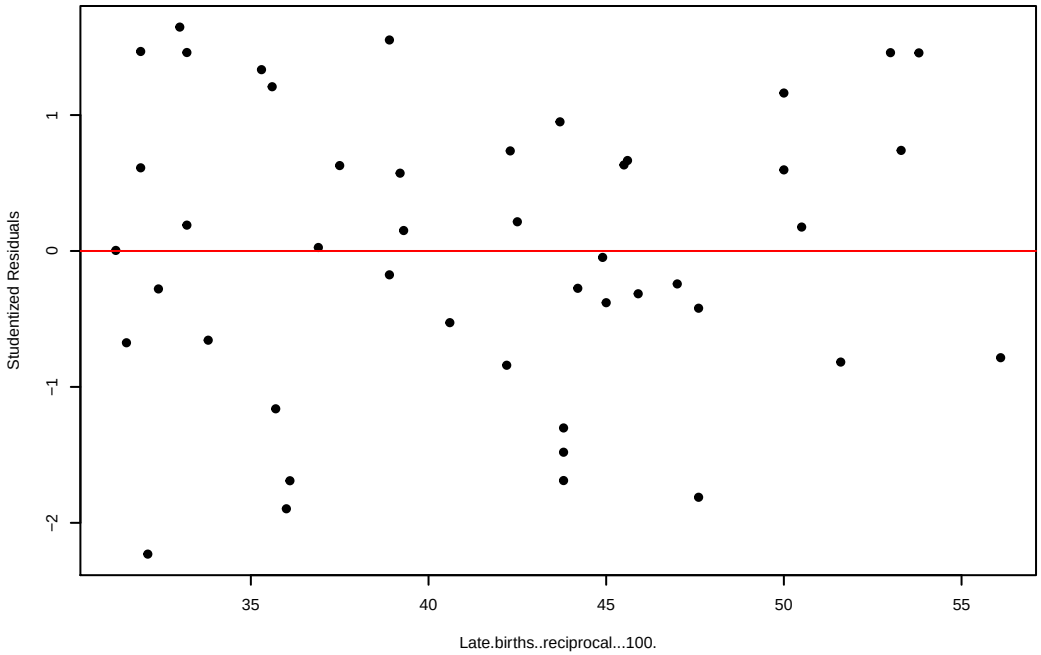

Spread−Level Plot for
fit
Absolute Studentized Residuals
Fitted Values
0.005
0.010
0.020
0.050
0.100
0.200
0.500
1.000
2.000
40
60
80
100
120

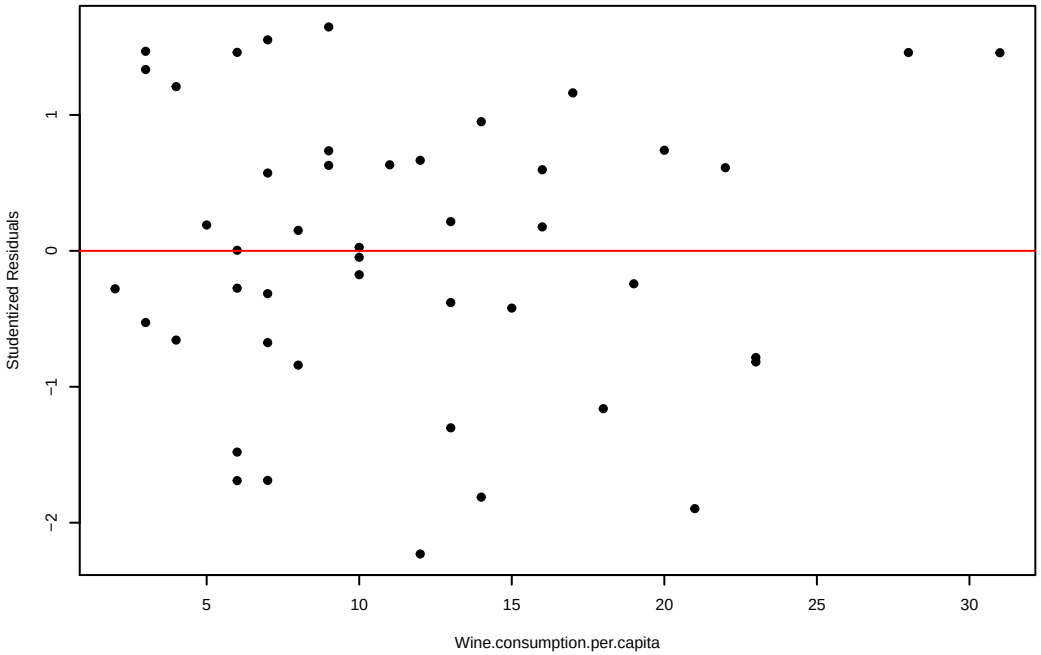

Studentized Residuals
Hat−Values
−2
−1
0
1
0.1
0.2
0.3
0.4
0.5
20
36
15
30
12

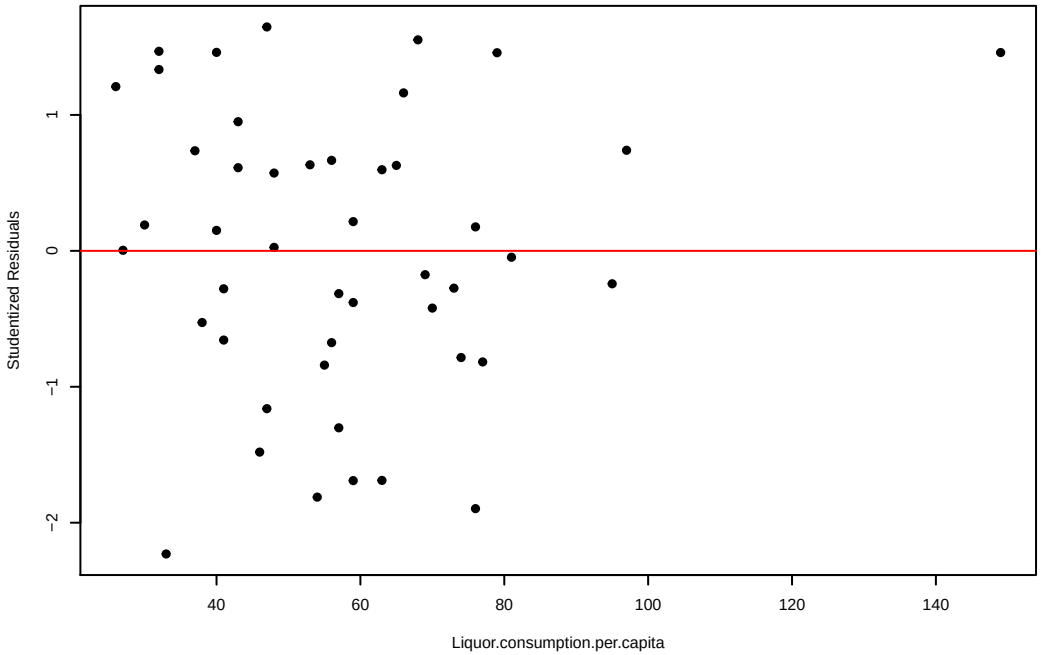

Cook's Distance
Index
0.0
0.1
0.2
0.3
0.4
0
10
20
30
40
12
20
30
36
4 / N

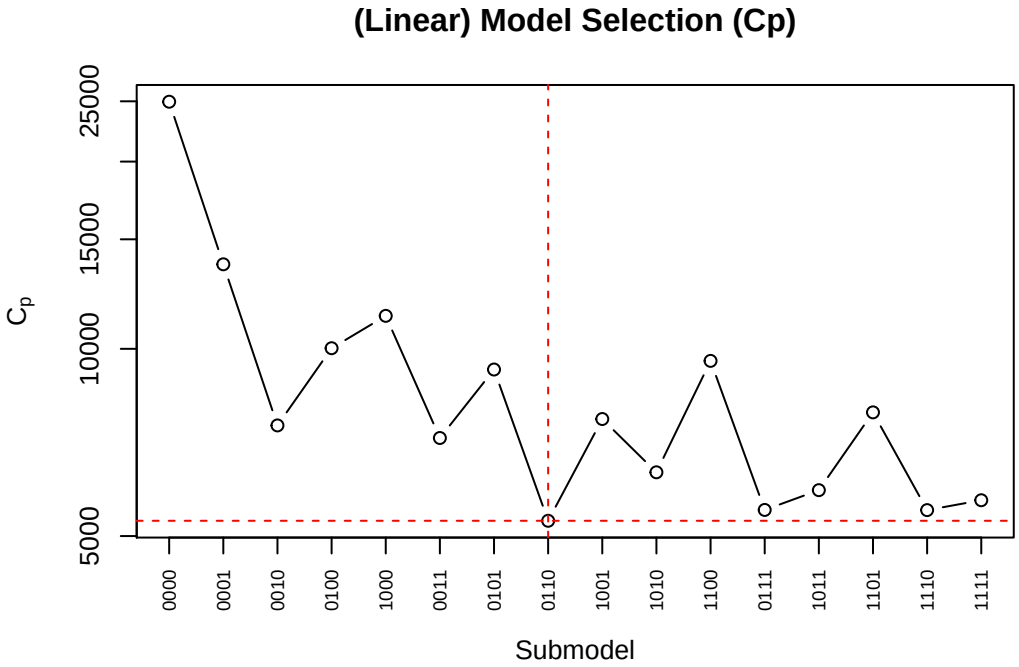

Leverage
Index
0.1
0.2
0.3
0.4
0.5
0
10
20
30
40
12
20
36
38

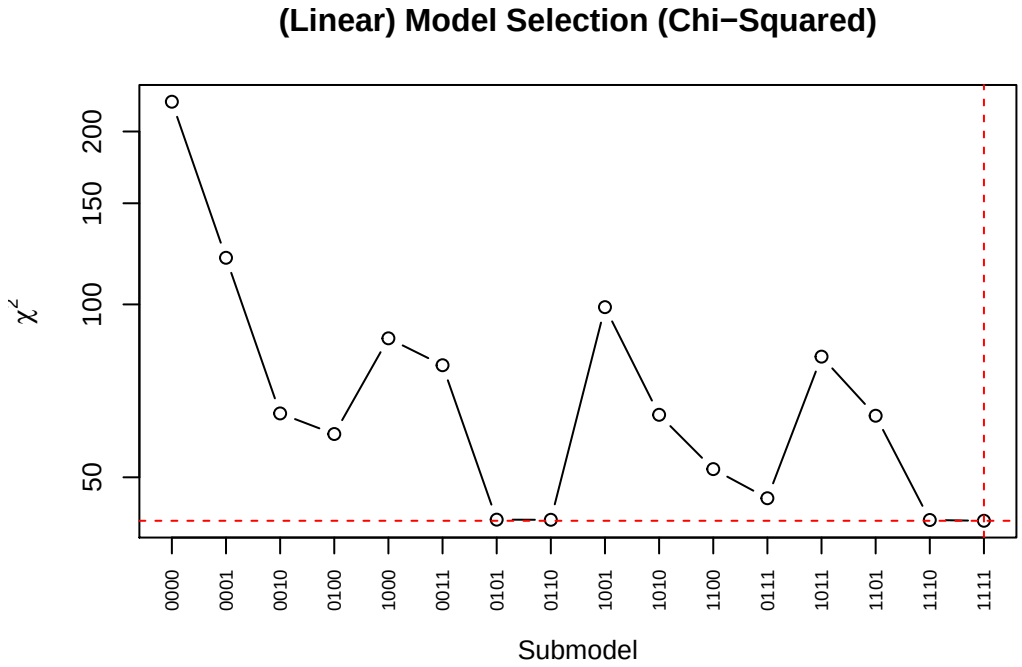

Studentized Residuals
1
0
−1
−2
30
40
50
60
70
80
Urban.population..percentage.

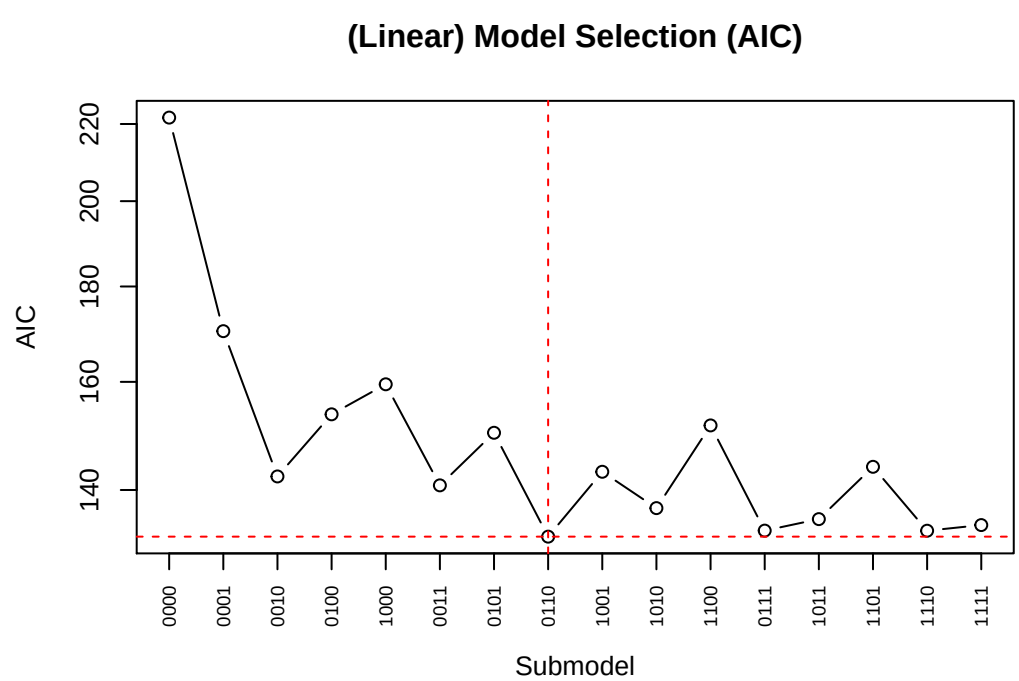

Studentized Residuals
1
0
−1
−2
35
40
45
50
55
Late.births..reciprocal...100.

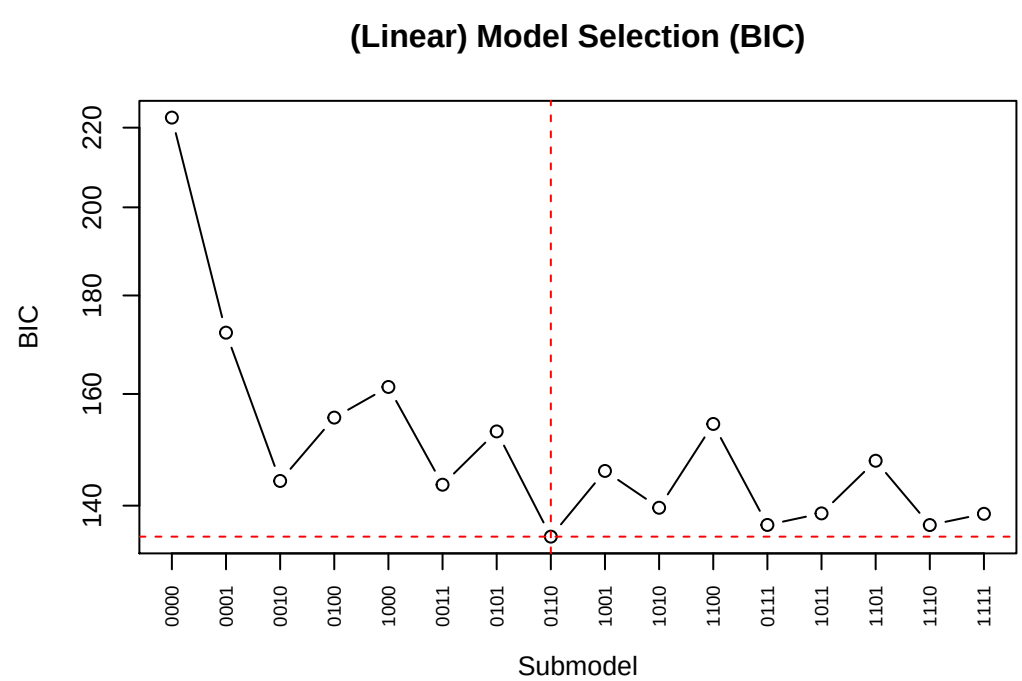

Studentized Residuals
1
0
−1
−2
5
10
15
20
25
30
Wine.consumption.per.capita


Studentized Residuals
1
0
−1
−2
40
60
80
100
120
140
Liquor.consumption.per.capita


(Linear) Model Selection (Cp)
C_p
5000
10000
15000
25000
0000
0001
0010
0100
1000
0011
0101
0110
1001
1010
1100
0111
1011
1101
1110
1111
Submodel


(Linear) Model Selection (Chi−Squared)
χ^2
50
100
150
200
0000
0001
0010
0100
1000
0011
0101
0110
1001
1010
1100
0111
1011
1101
1110
1111
Submodel


(Linear) Model Selection (AIC)
AIC
140
160
180
200
220
0000
0001
0010
0100
1000
0011
0101
0110
1001
1010
1100
0111
1011
1101
1110
1111
Submodel


(Linear) Model Selection (BIC)
BIC
140
160
180
200
220
0000
0001
0010
0100
1000
0011
0101
0110
1001
1010
1100
0111
1011
1101
1110
1111
Submodel