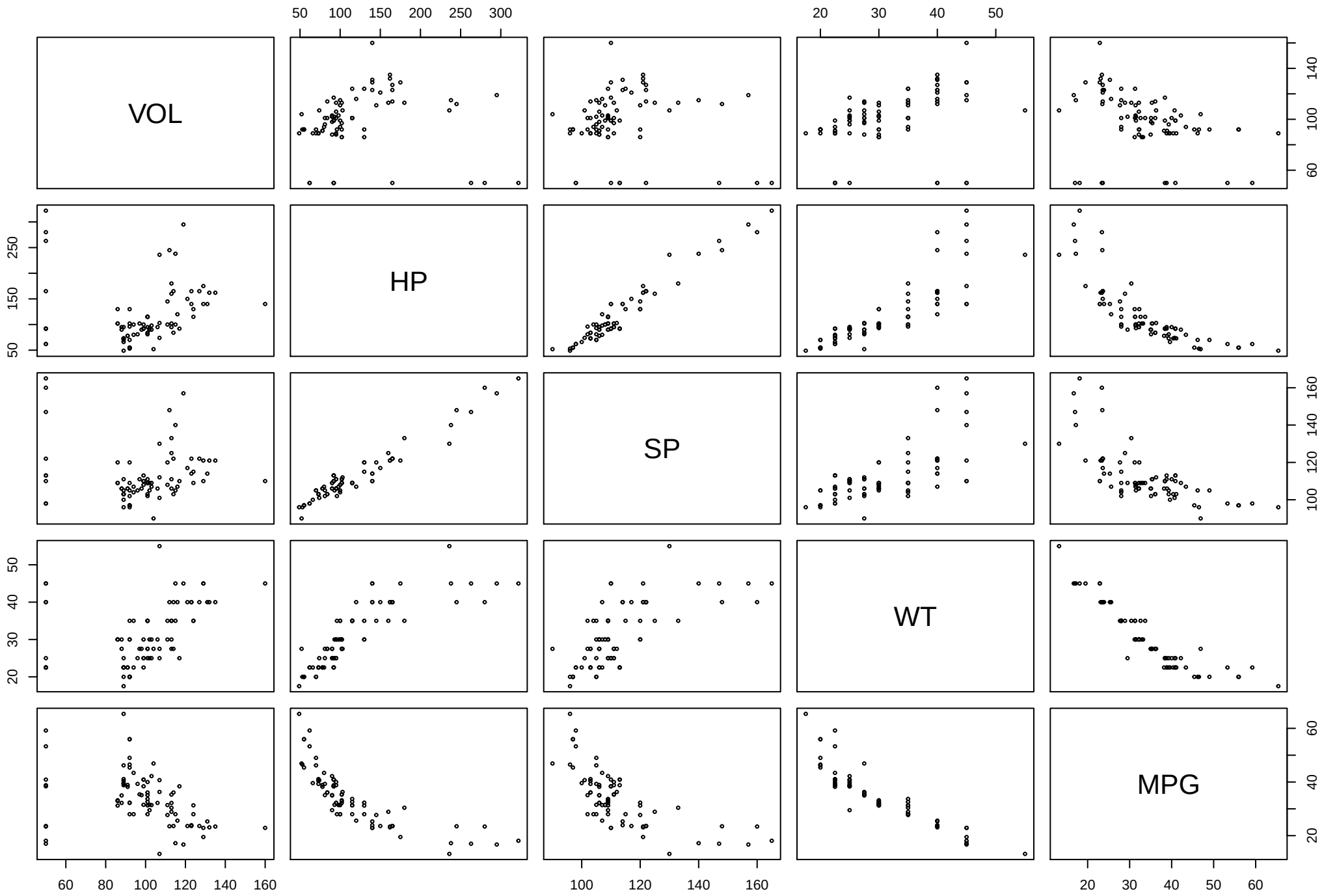
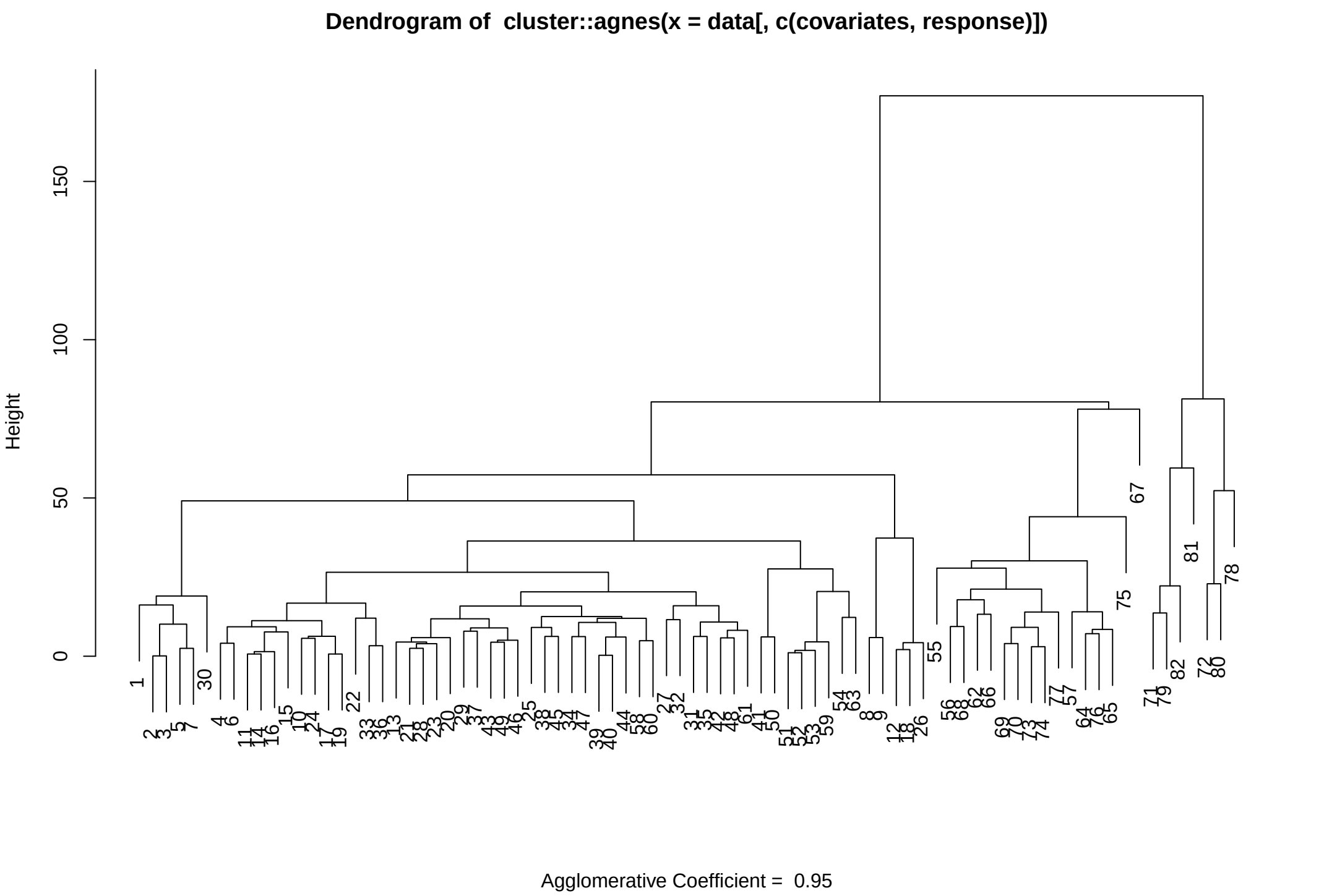
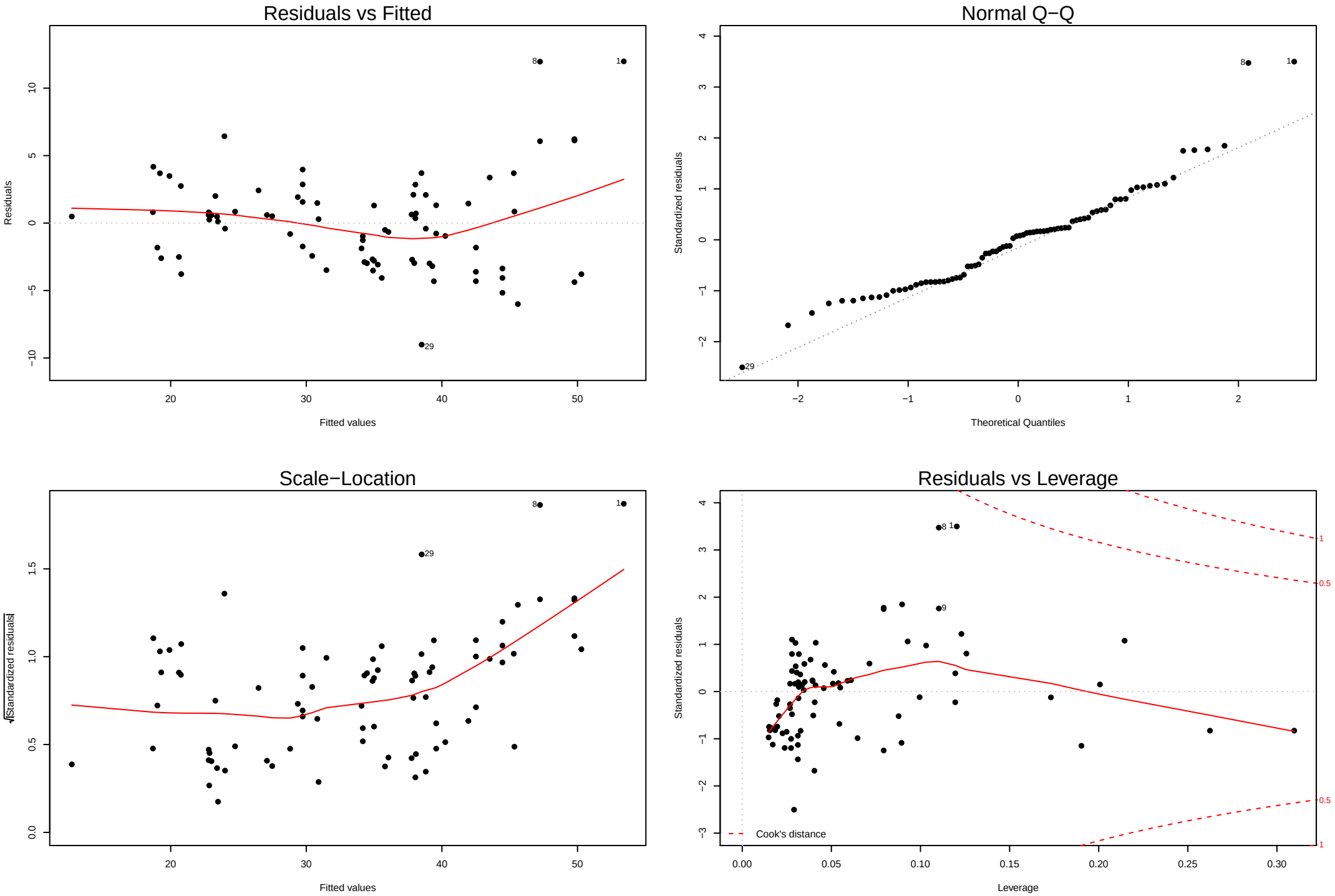
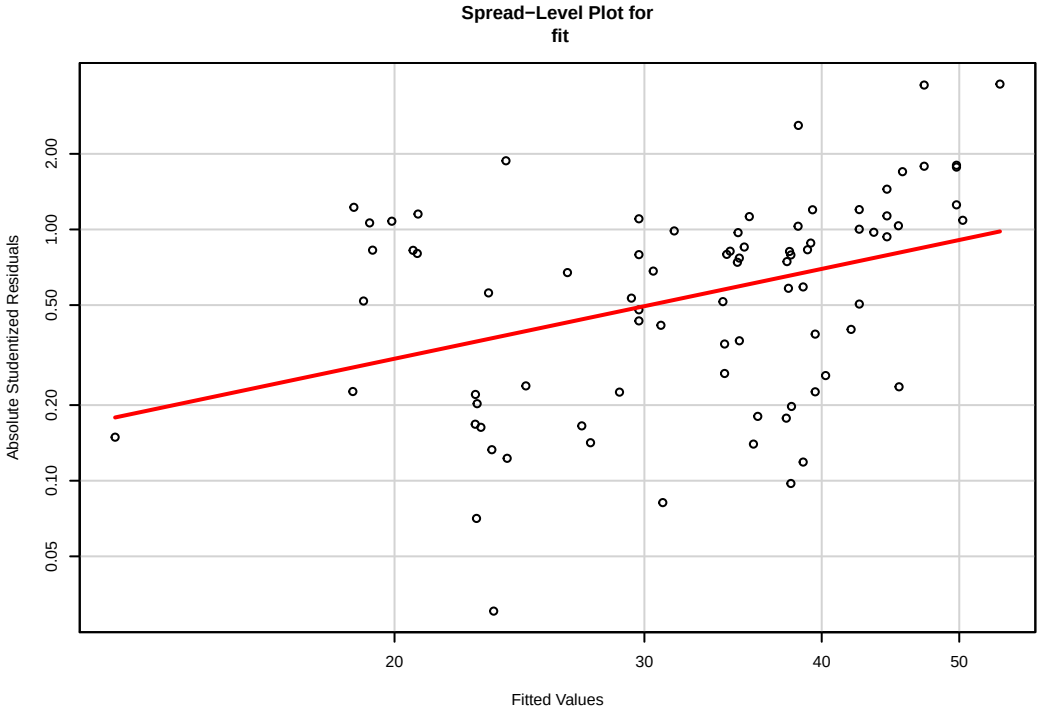
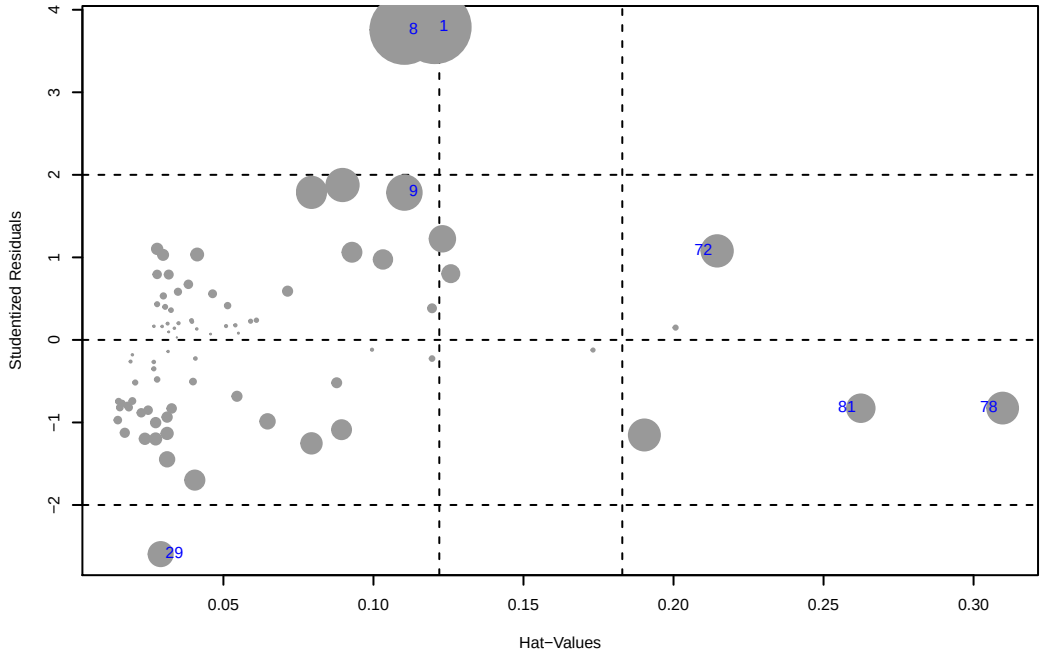
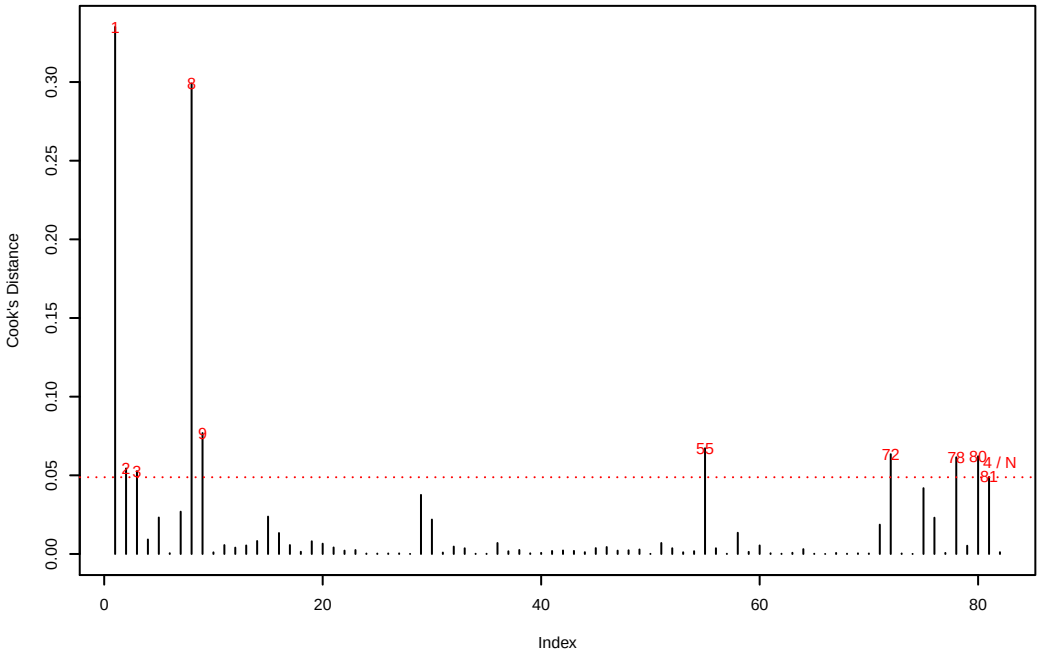

VOL
HP
SP
WT
MPG
50 100 150 200 250 300
20 30 40 50
60 80 100 120 140 160
50 150 250
100 120 140 160
20 30 40 50 60

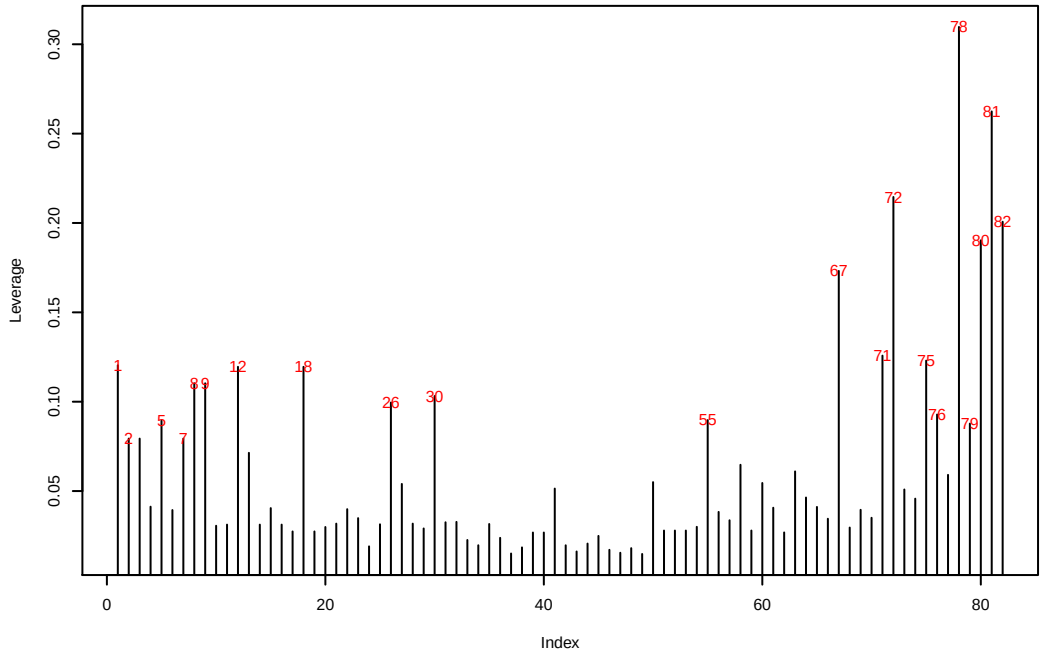

Dendrogram of cluster::agnes(x = data[, c(covariates, response)])
Height
0
50
100
150
Agglomerative Coefficient = 0.95

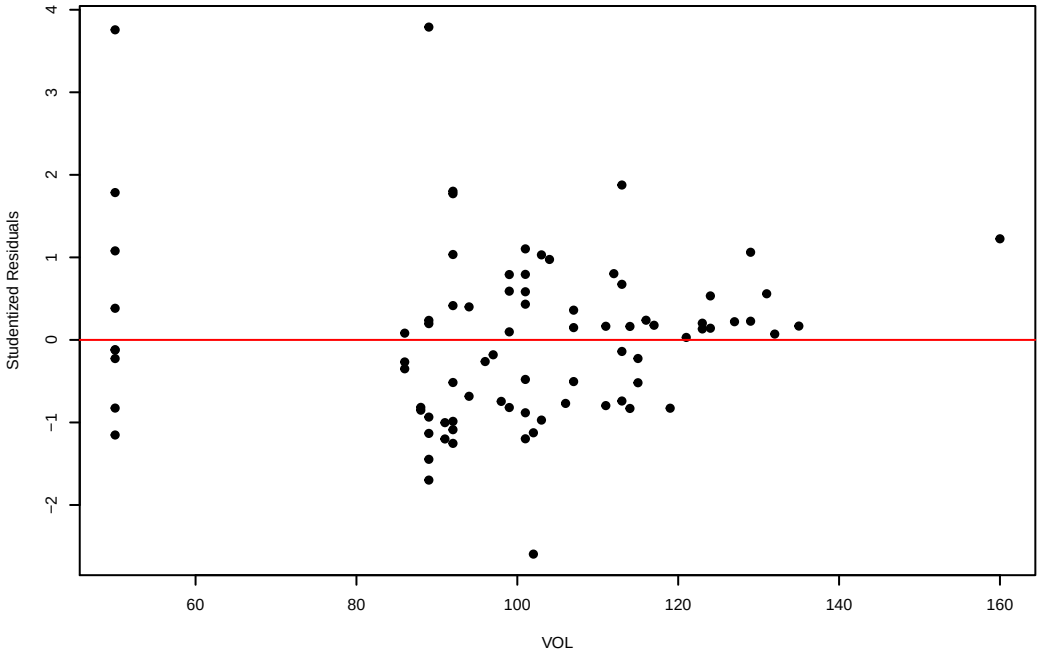

Residuals vs Fitted
Residuals
Fitted values
Normal Q−Q
Standardized residuals
Theoretical Quantiles
Scale−Location
√|Standardized residuals|
Fitted values
Residuals vs Leverage
Standardized residuals
Leverage
Cook's distance

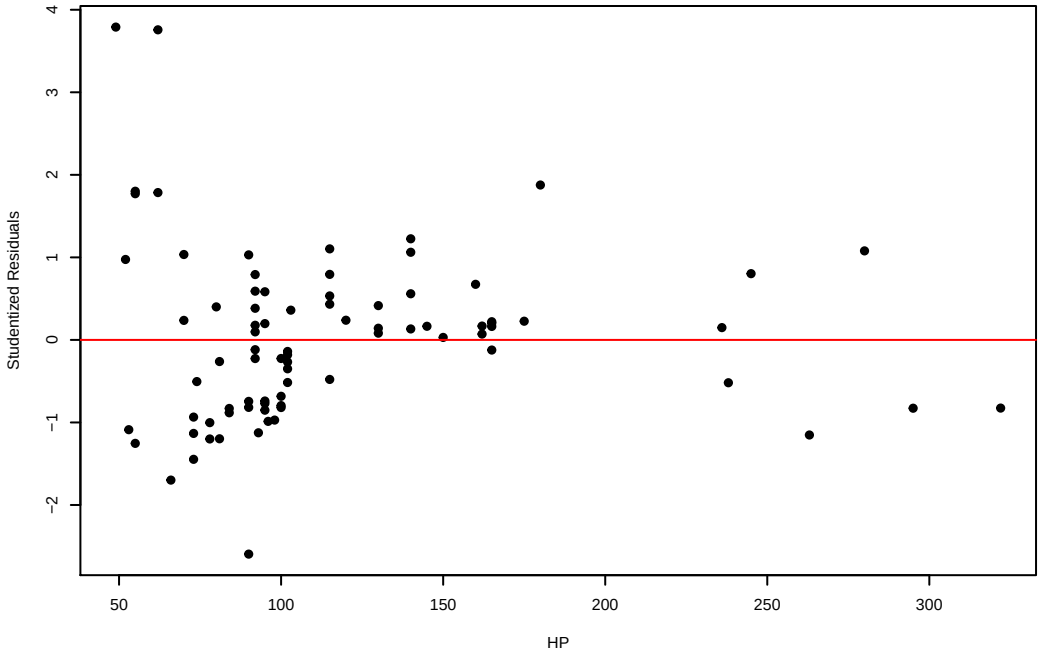

Spread−Level Plot for
fit
Absolute Studentized Residuals
Fitted Values
0.05
0.10
0.20
0.50
1.00
2.00
20
30
40
50

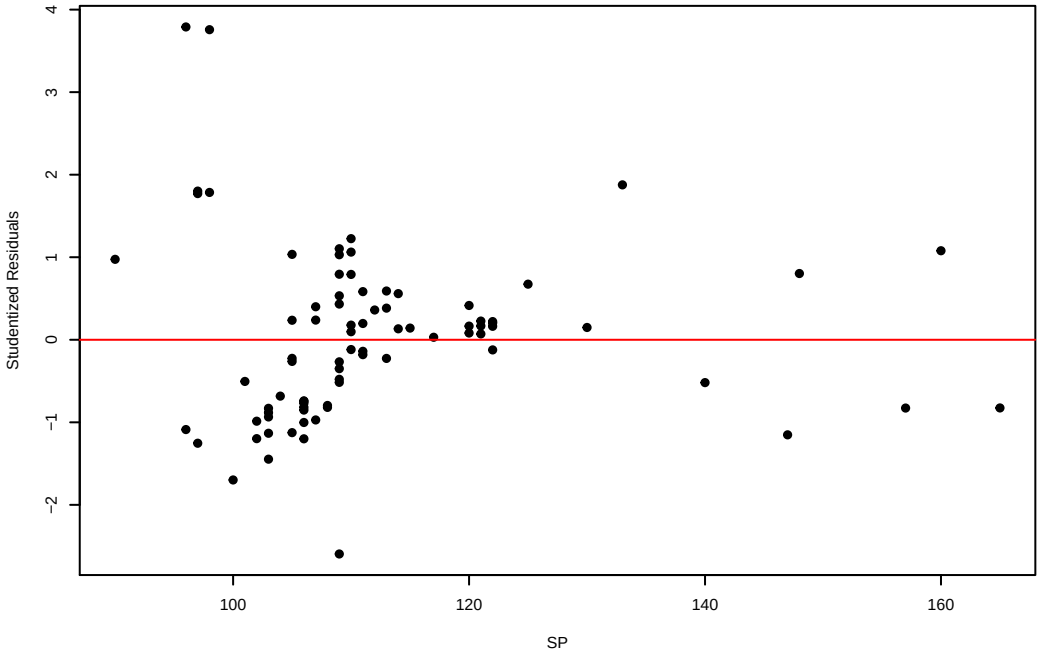

Studentized Residuals
Hat−Values
8
1
9
72
81
78
29
−2
−1
0
1
2
3
4
0.05
0.10
0.15
0.20
0.25
0.30

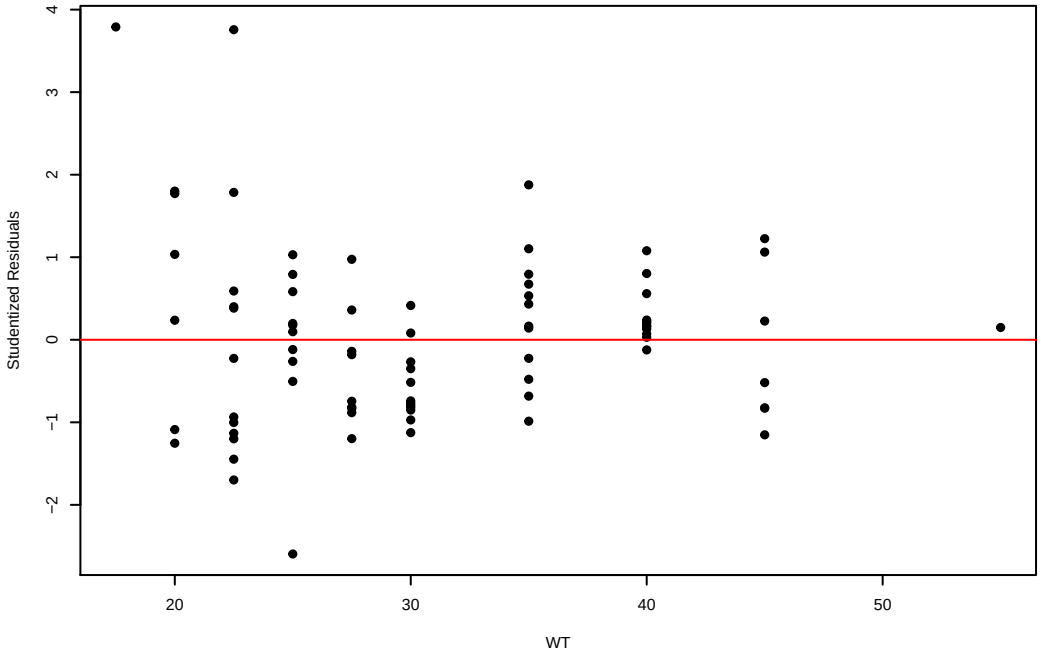

Cook's Distance
Index
1
8
9
55
72
78
80
81
4 / N
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0
20
40
60
80

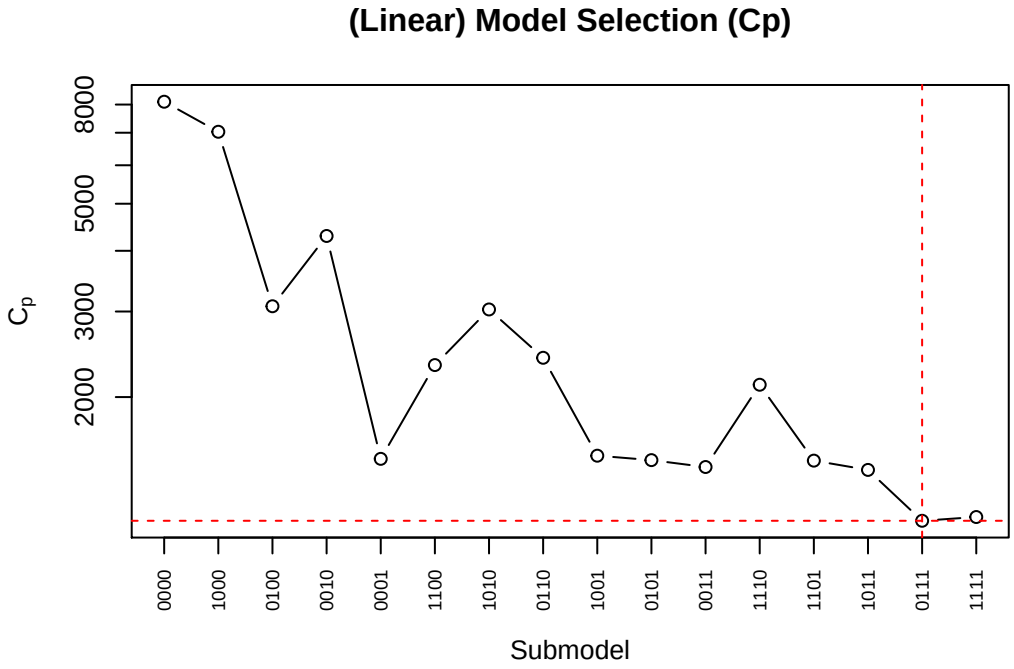

Leverage
Index
1
2
5
7
8
9
12
18
26
30
55
67
71
72
75
76
78
79
80
81
82
0.05
0.10
0.15
0.20
0.25
0.30
0
20
40
60
80

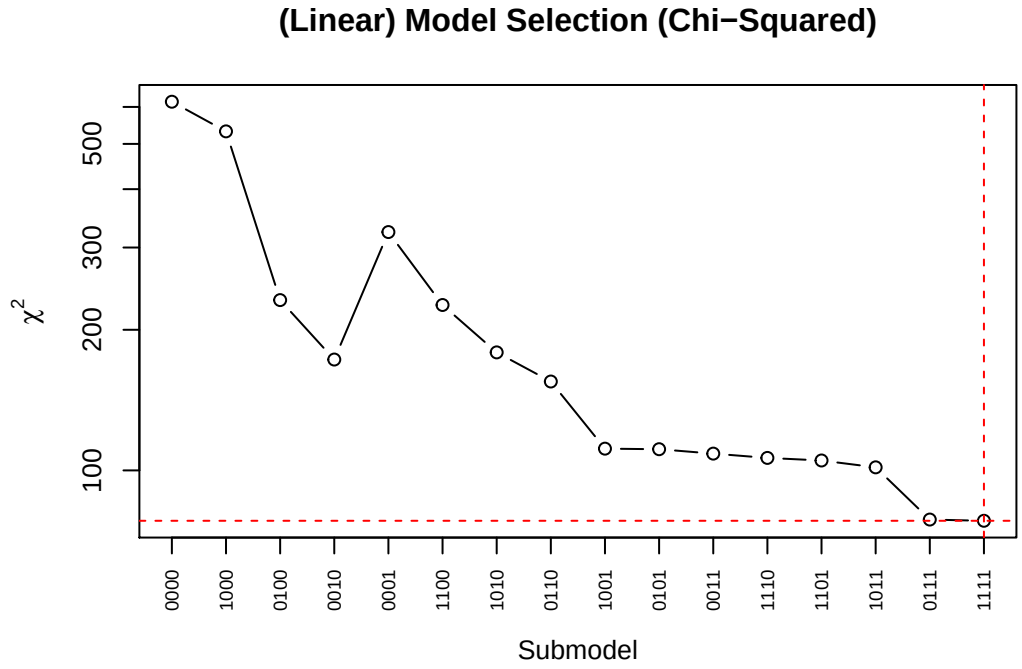

Studentized Residuals
VOL
60
80
100
120
140
160
−2
−1
0
1
2
3
4

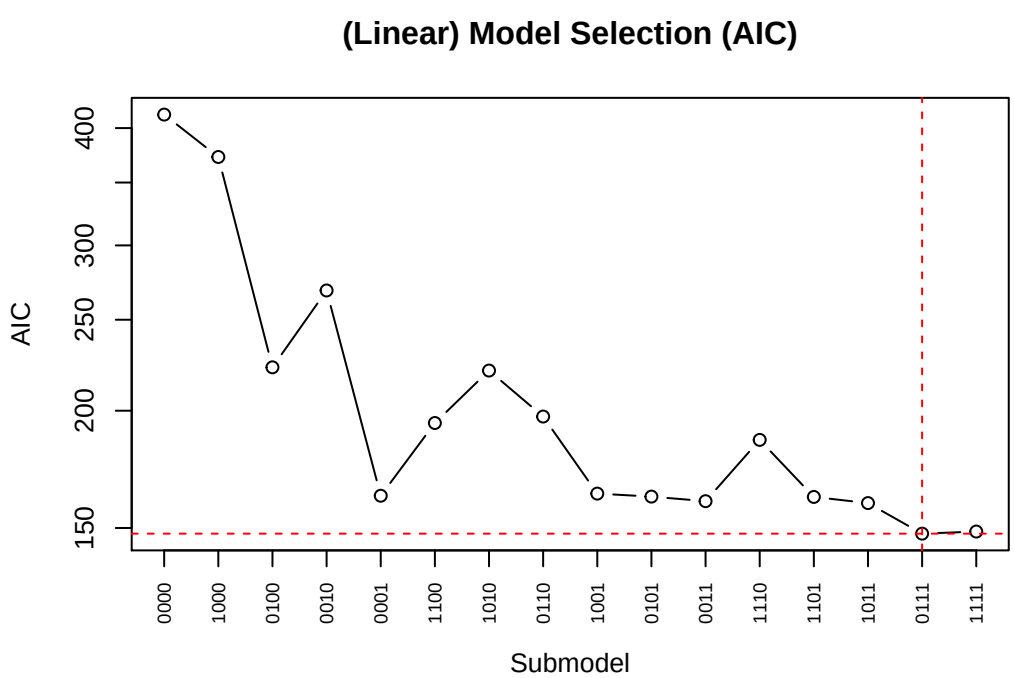

Studentized Residuals
HP
50
100
150
200
250
300
−2
−1
0
1
2
3
4

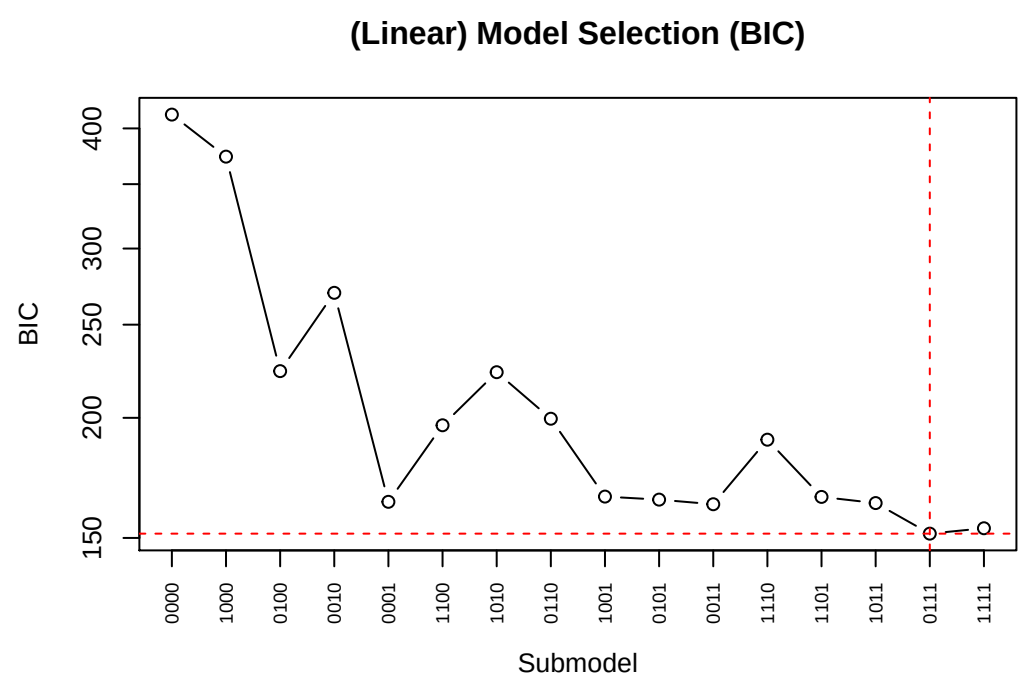

Studentized Residuals
SP
100
120
140
160
−2
−1
0
1
2
3
4


Studentized Residuals
WT
20
30
40
50
−2
−1
0
1
2
3
4


(Linear) Model Selection (Cp)
C_p
2000
3000
5000
8000
0000
1000
0100
0010
0001
1100
1010
0110
1001
0101
0011
1110
1101
1011
0111
1111
Submodel


(Linear) Model Selection (Chi−Squared)
χ^2
100
200
300
500
0000
1000
0100
0010
0001
1100
1010
0110
1001
0101
0011
1110
1101
1011
0111
1111
Submodel


(Linear) Model Selection (AIC)
AIC
150
200
250
300
400
0000
1000
0100
0010
0001
1100
1010
0110
1001
0101
0011
1110
1101
1011
0111
1111
Submodel


(Linear) Model Selection (BIC)
BIC
150
200
250
300
400
0000
1000
0100
0010
0001
1100
1010
0110
1001
0101
0011
1110
1101
1011
0111
1111
Submodel