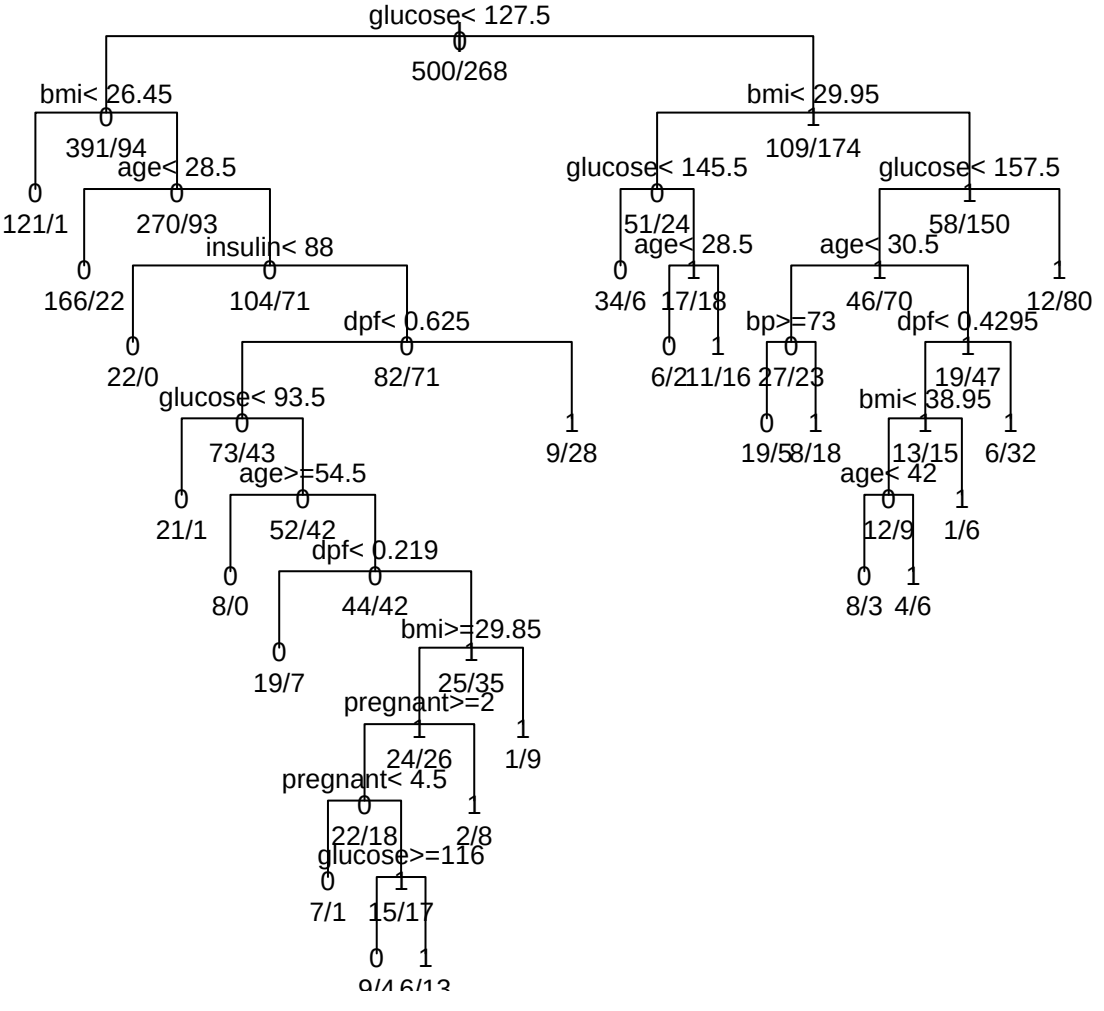
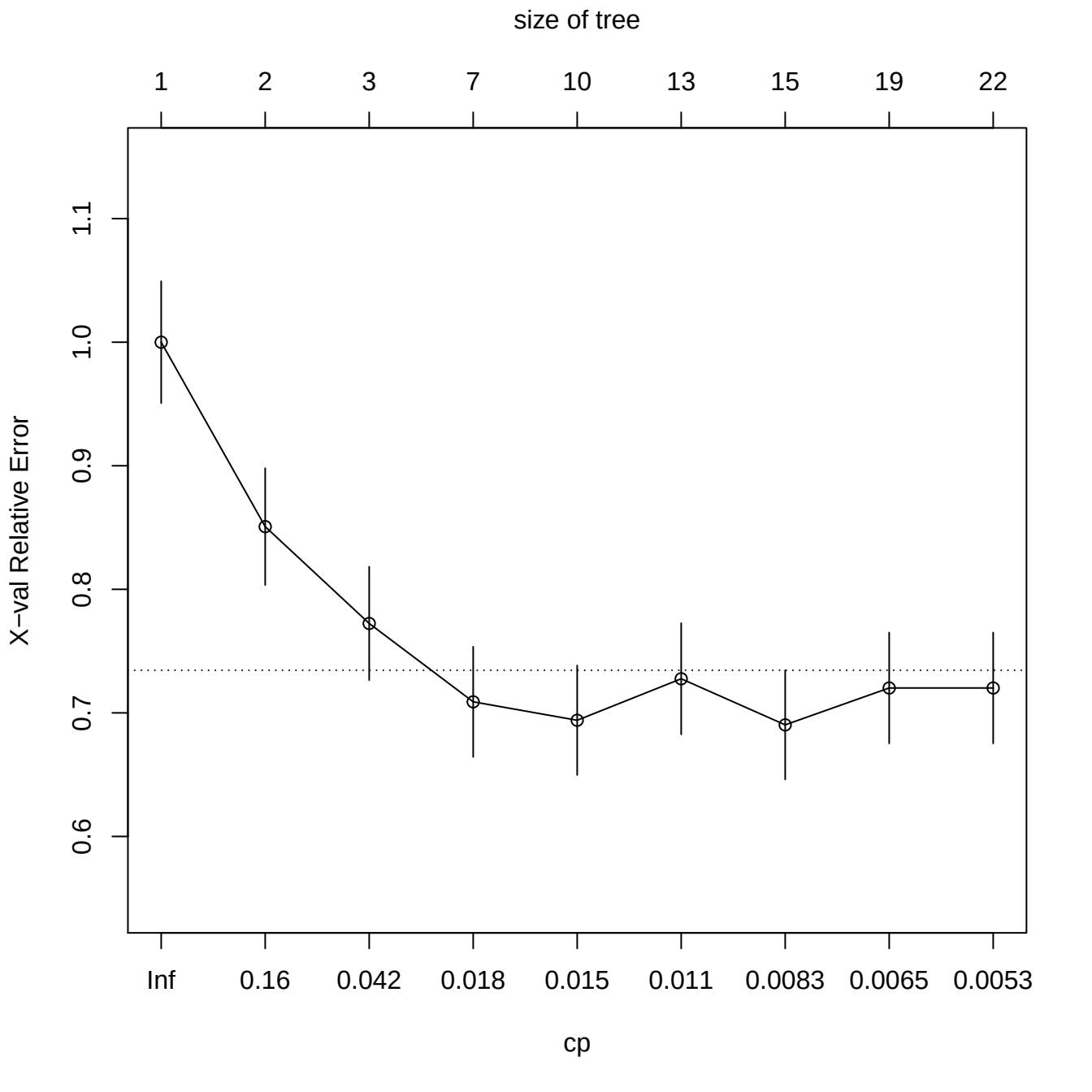
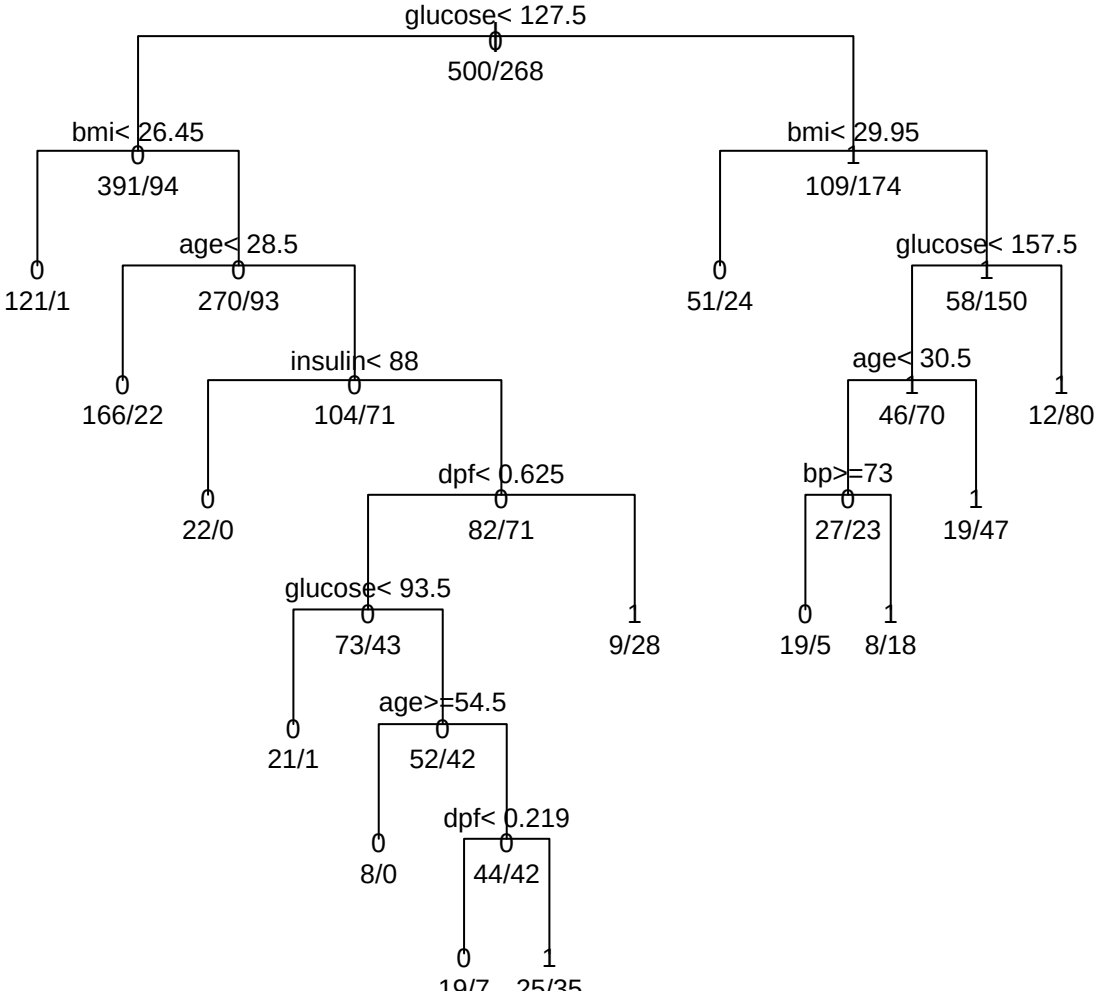
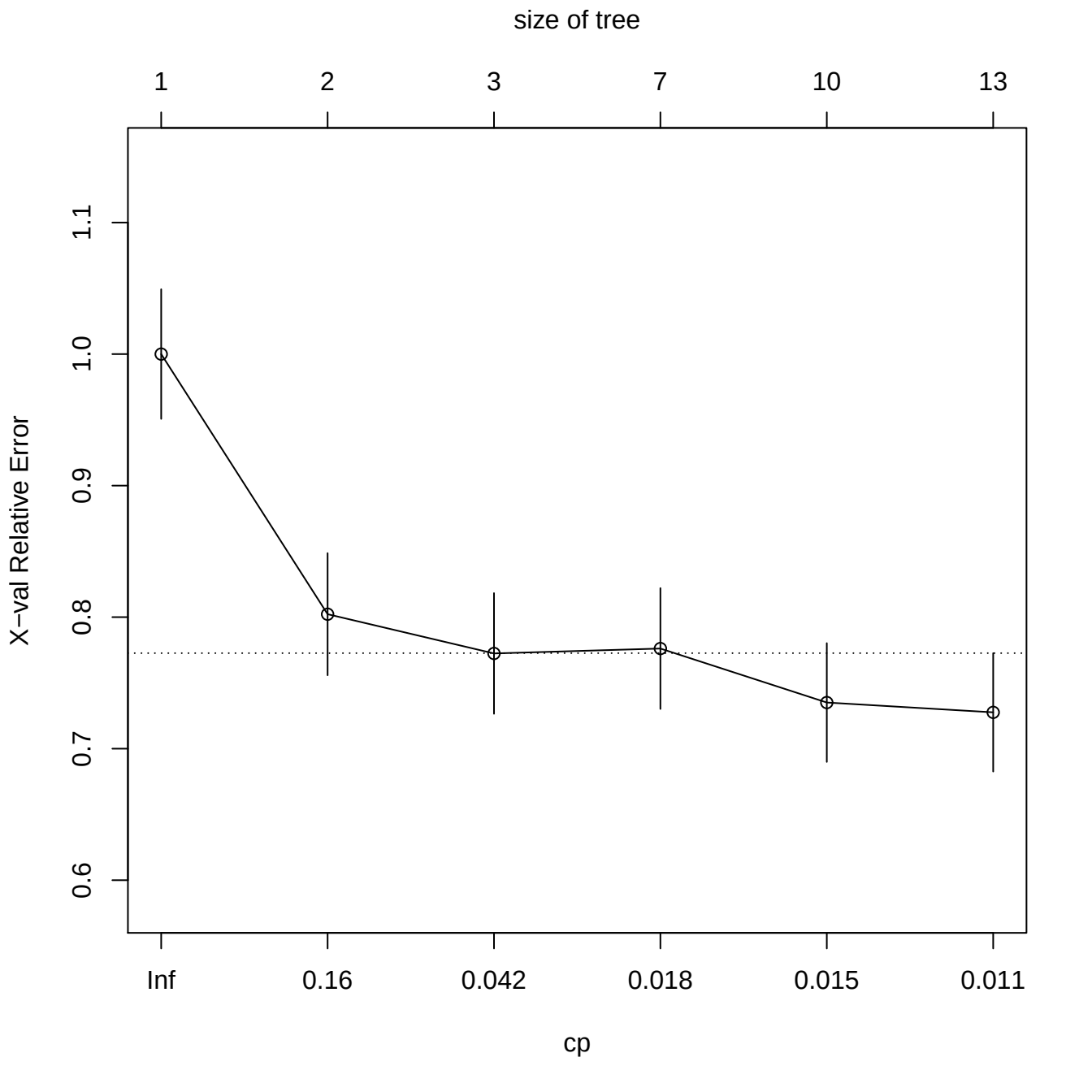
# Threshold(0.005) on decrease in impurity(using Information)



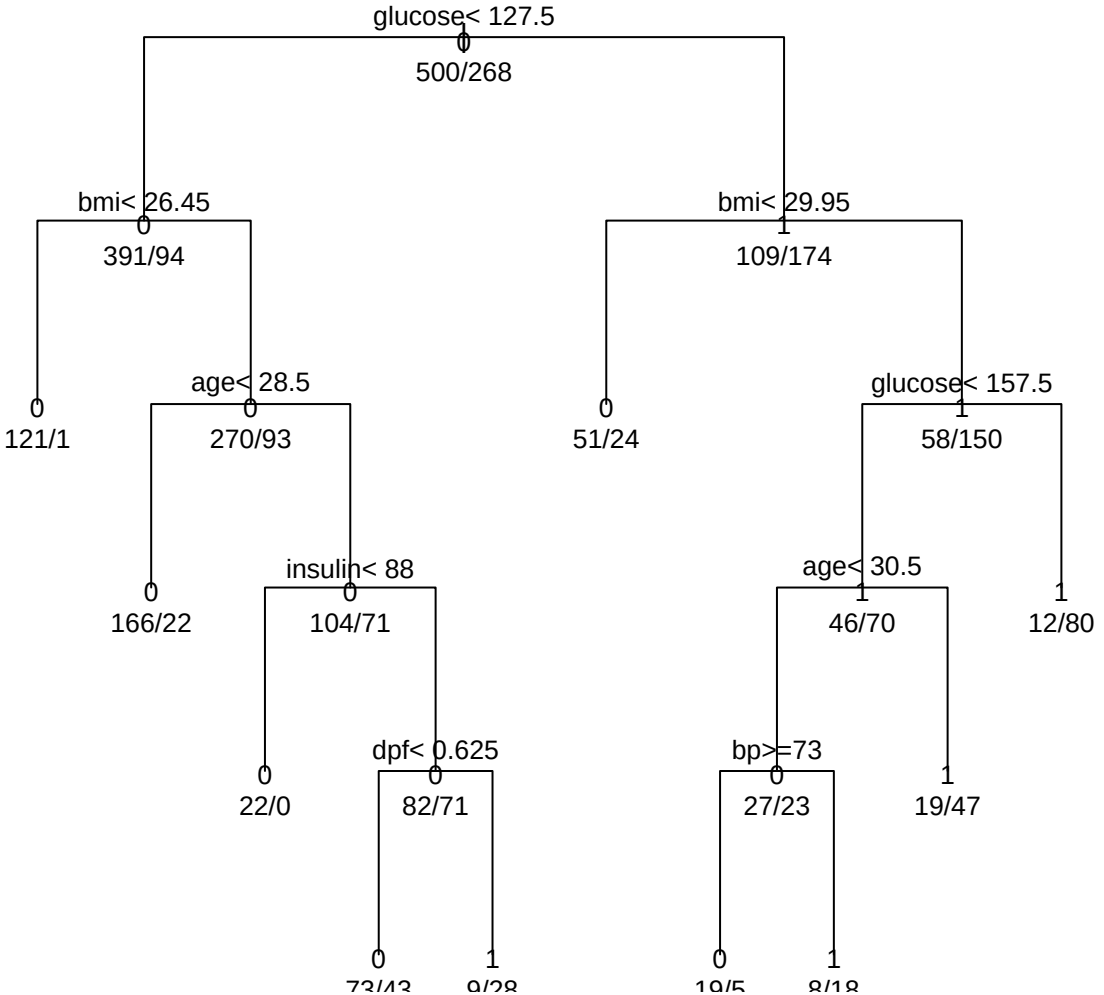

size of tree
1
2
3
7
10
13
15
19
22
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.042
0.018
0.015
0.011
0.0083
0.0065
0.0053
cp

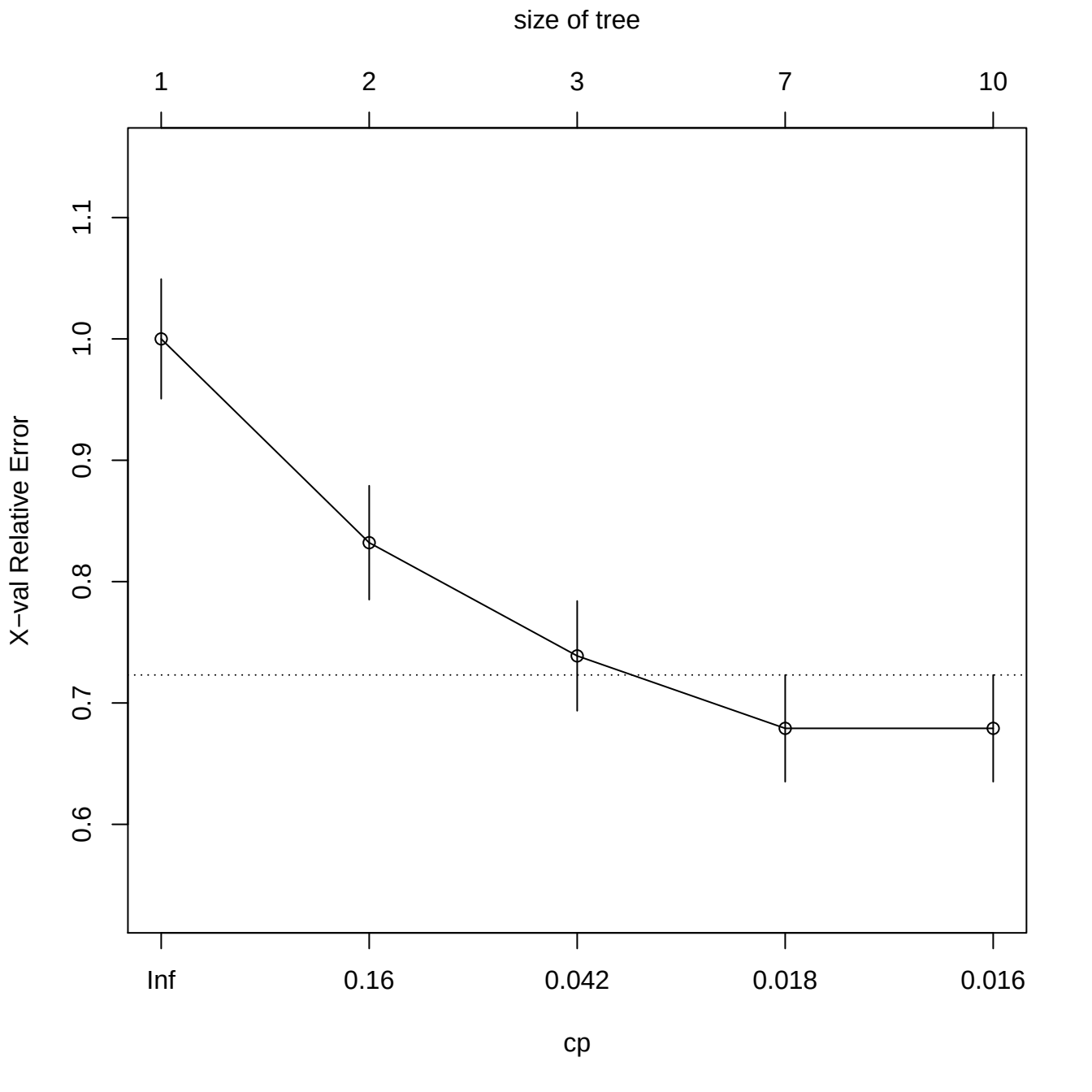
# Threshold(0.01) on decrease in impurity(using Information)

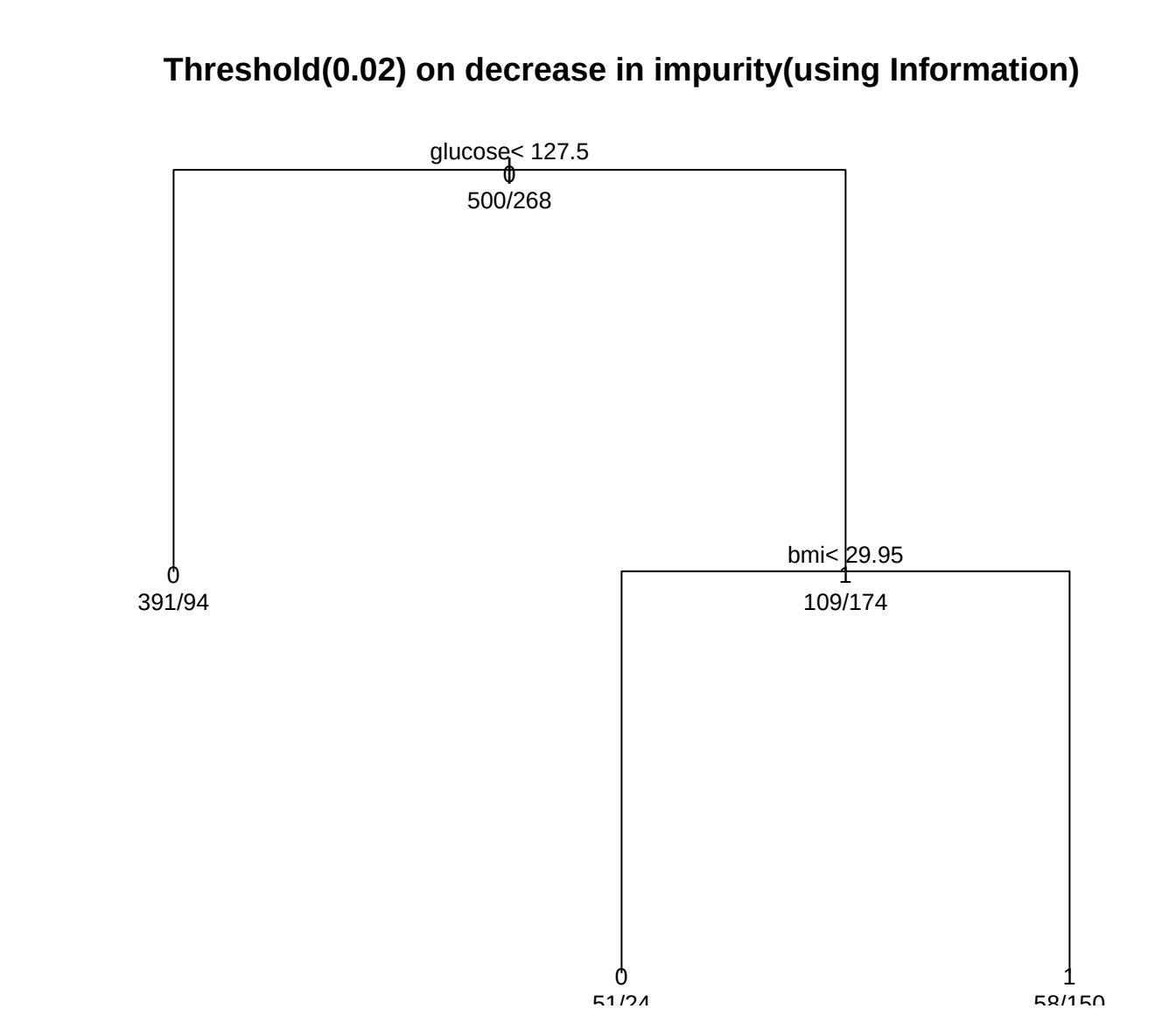


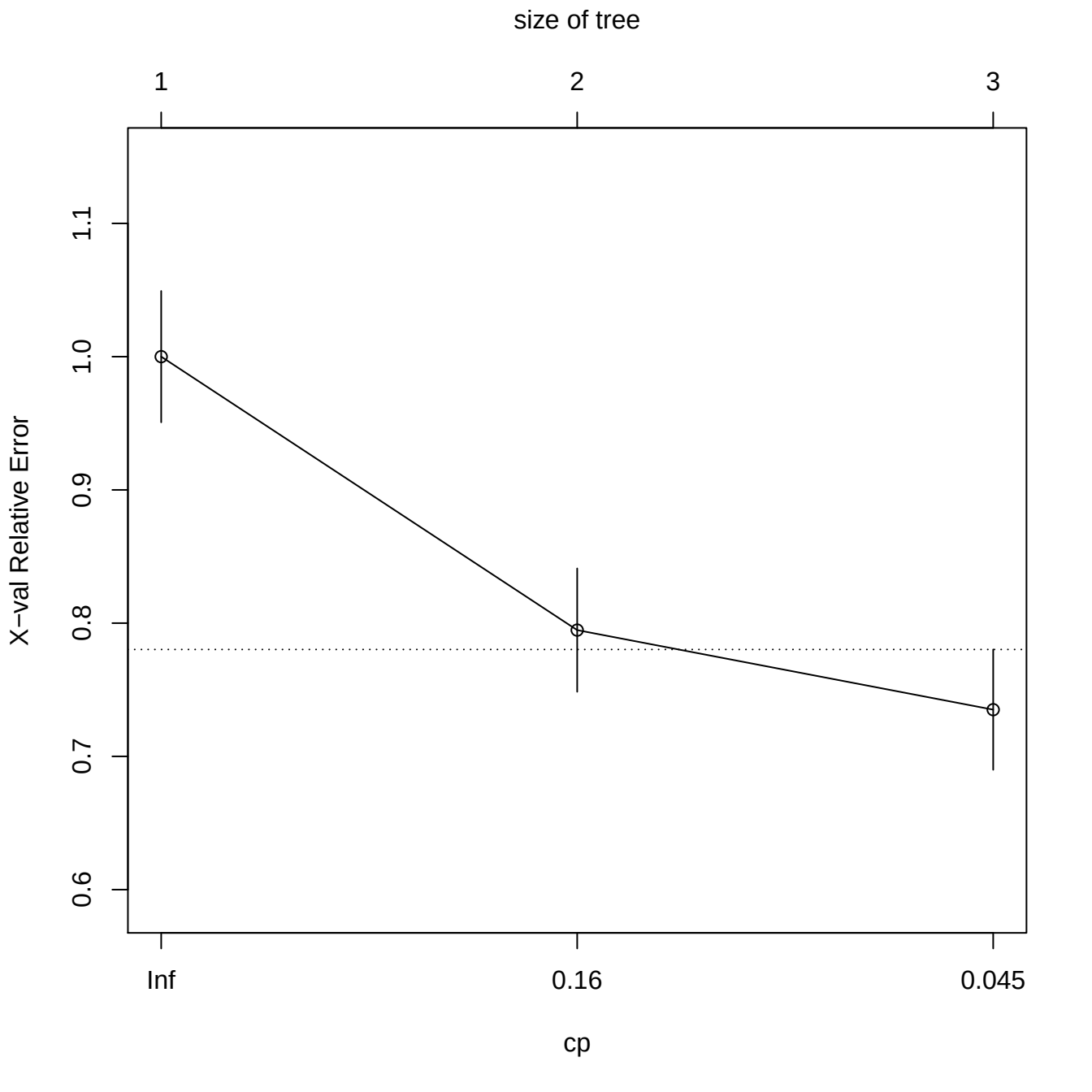

size of tree
1
2
3
7
10
13
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.042
0.018
0.015
0.011
cp

# Threshold(0.015) on decrease in impurity(using Information)

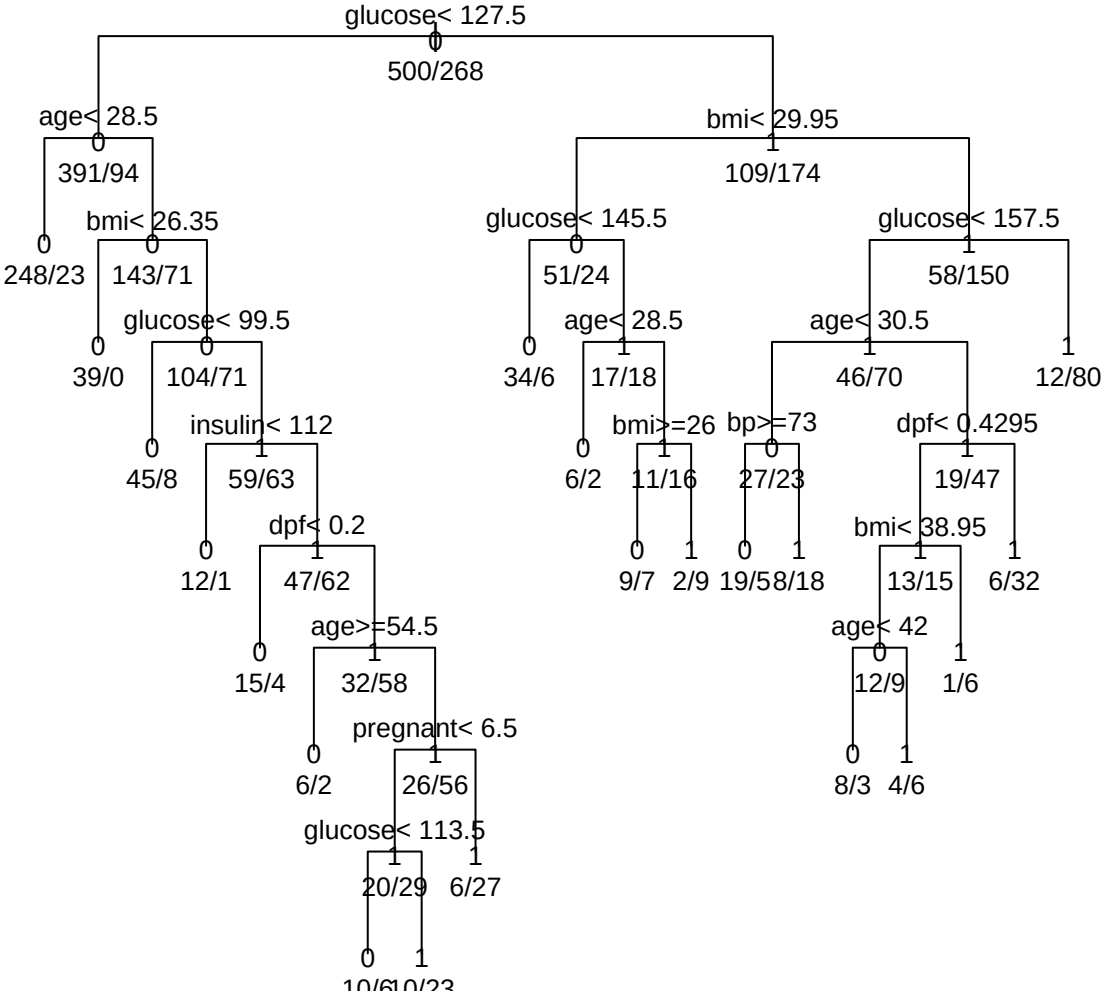


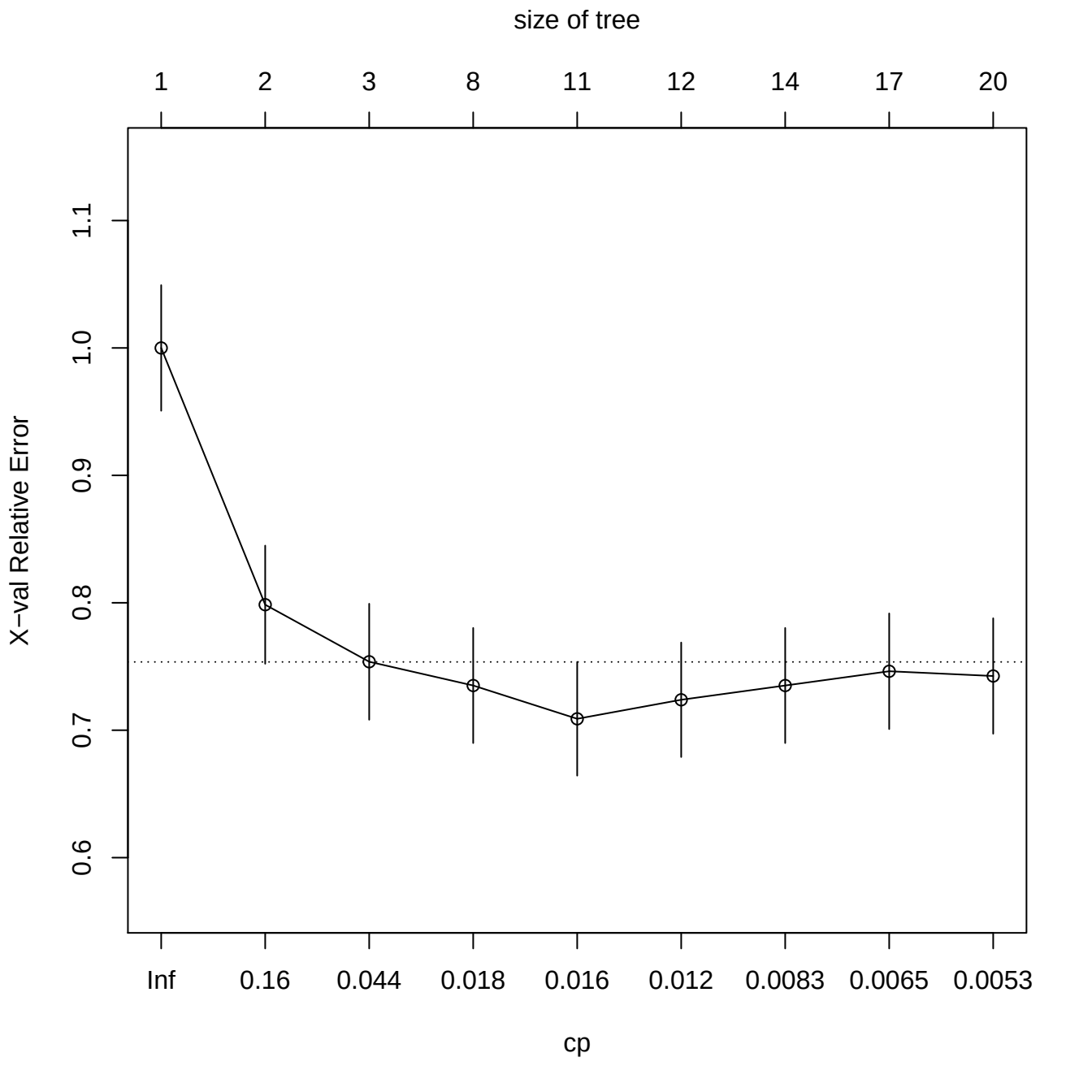

size of tree
1
2
3
7
10
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.042
0.018
0.016
cp

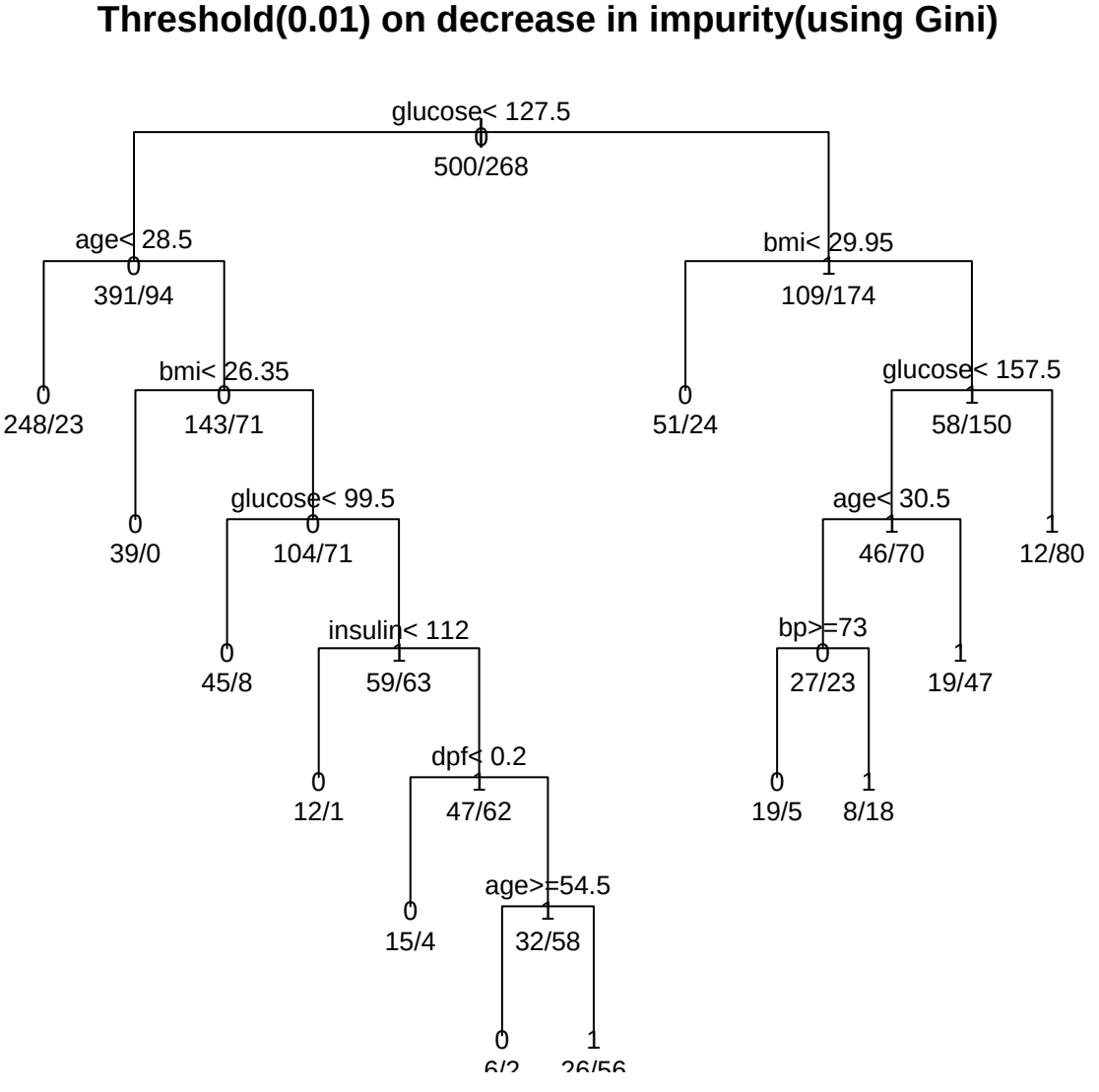

Threshold(0.02) on decrease in impurity(using Information)
glucose< 127.5
0
500/268
0
391/94
bmi< 29.95
1
109/174
0
51/24
1
58/150

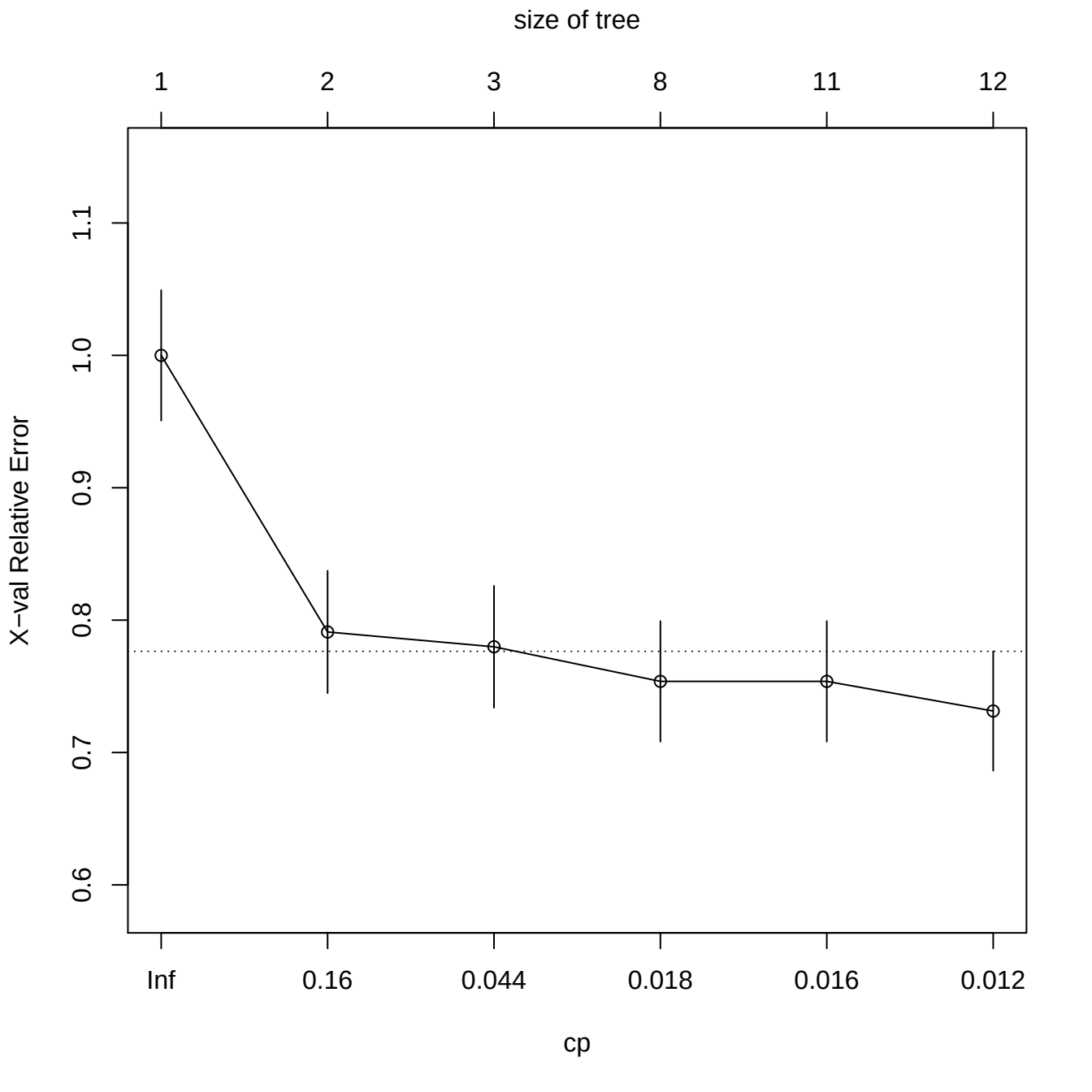

size of tree
1
2
3
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.045
cp

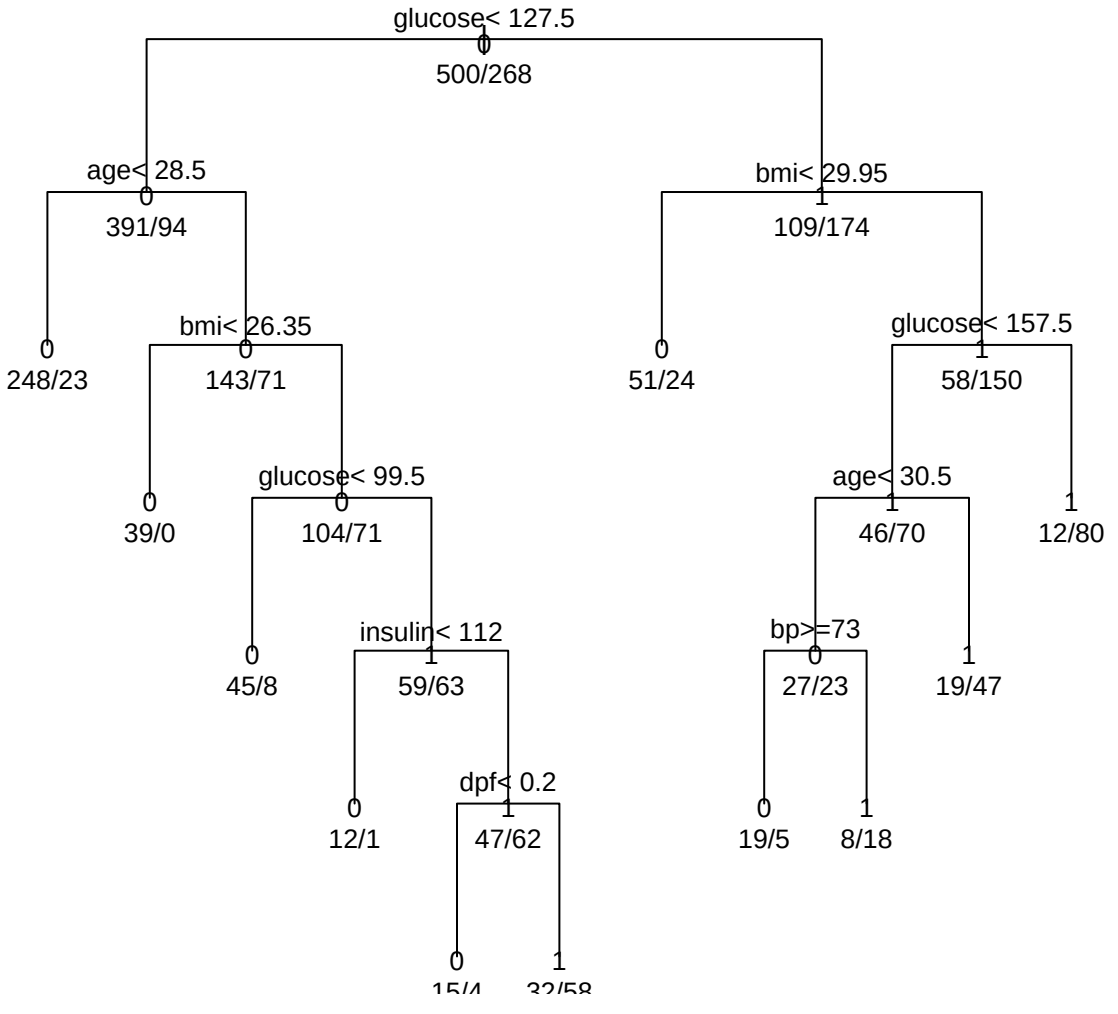
# Threshold(0.005) on decrease in impurity(using Gini)

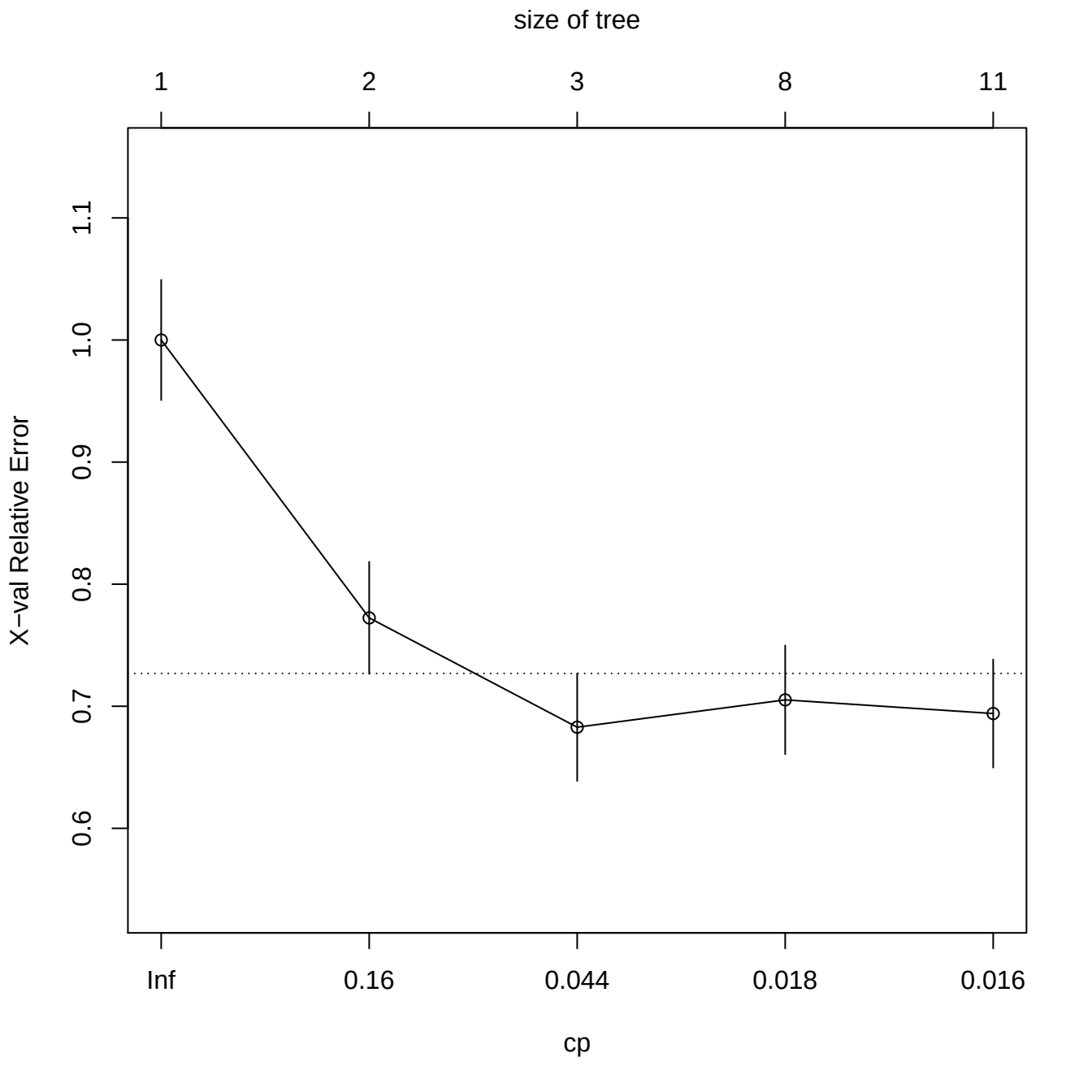


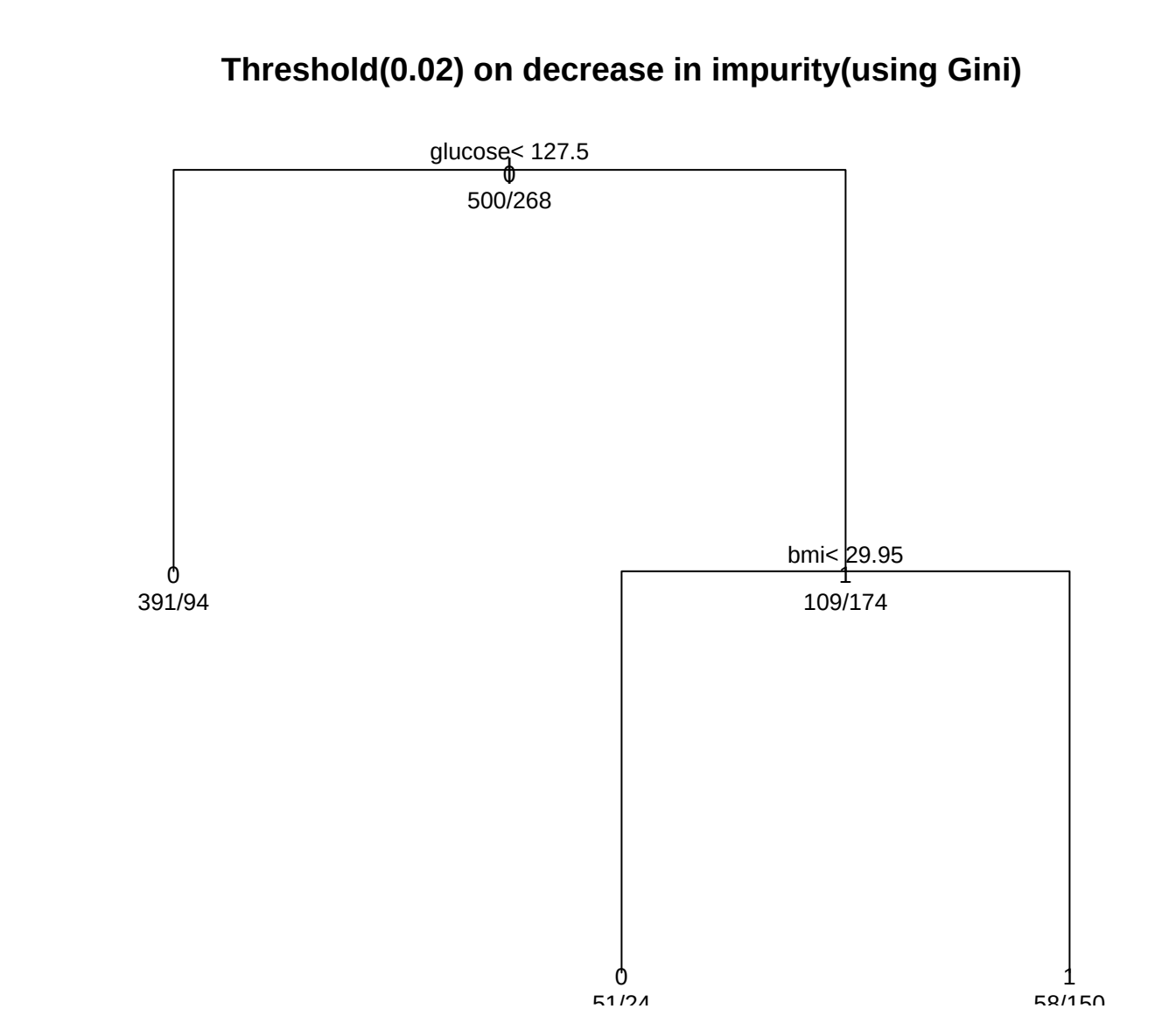

size of tree
1
2
3
8
11
12
14
17
20
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.044
0.018
0.016
0.012
0.0083
0.0065
0.0053
cp

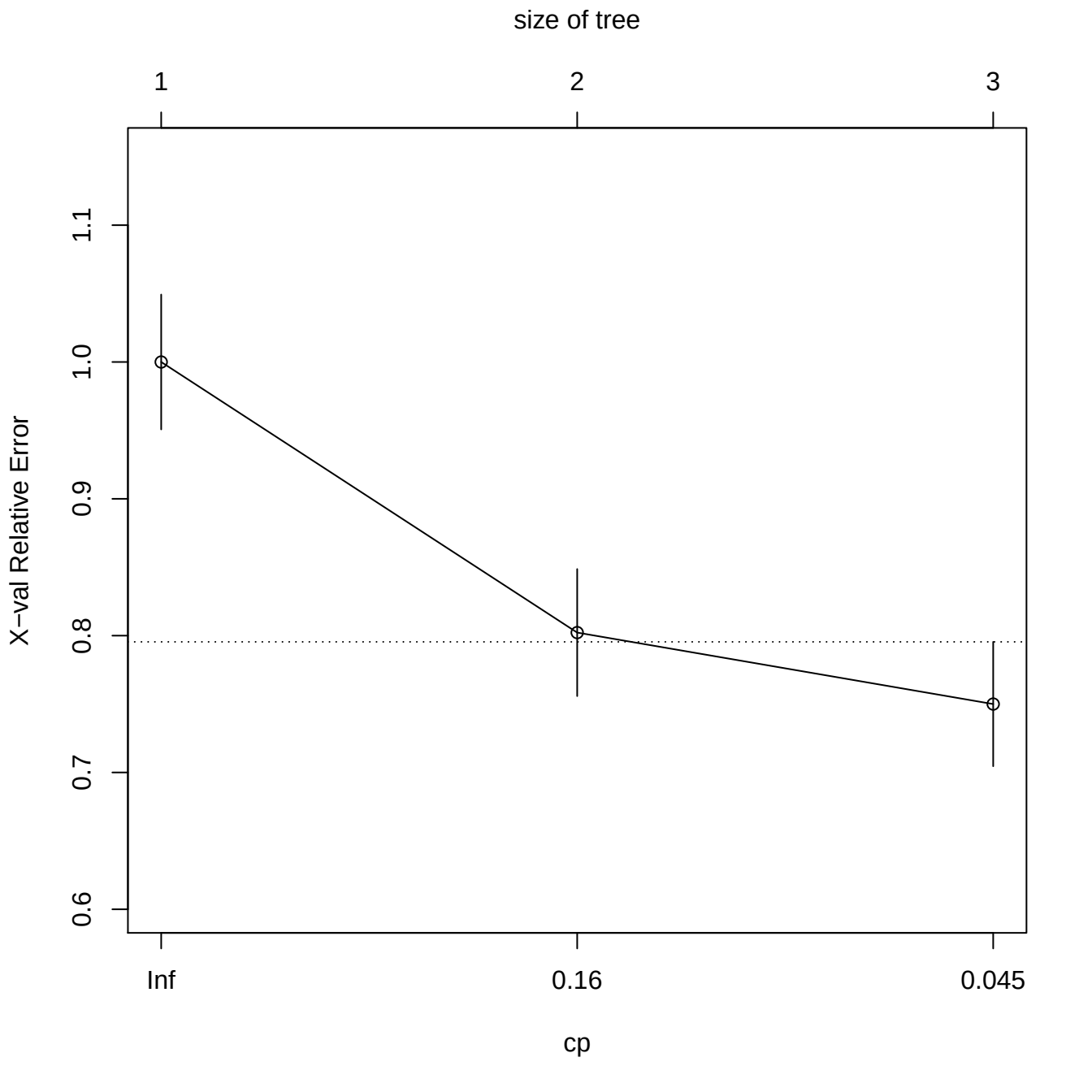

Threshold(0.01) on decrease in impurity(using Gini)
glucose< 127.5
0
500/268
age< 28.5
0
391/94
bmi< 29.95
1
109/174
0
248/23
bmi< 26.35
0
143/71
0
51/24
glucose< 157.5
1
58/150
0
39/0
glucose< 99.5
0
104/71
age< 30.5
1
46/70
1
12/80
0
45/8
insulin< 112
1
59/63
bp>=73
0
27/23
1
19/47
0
12/1
dpf< 0.2
1
47/62
0
19/5
1
8/18
0
15/4
age>=54.5
1
32/58
0
6/2
1
26/56


size of tree
1
2
3
8
11
12
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.044
0.018
0.016
0.012
cp

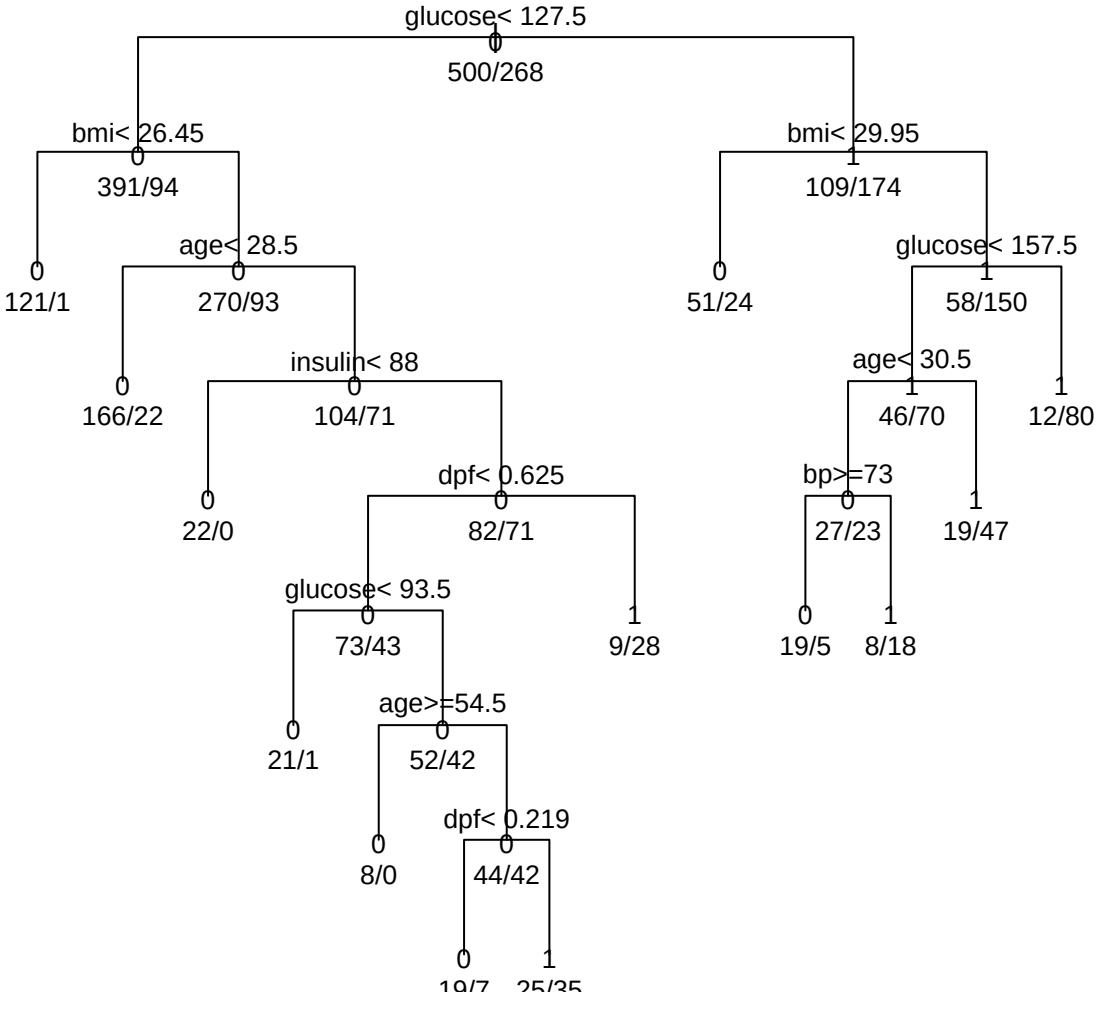

Threshold(0.015) on decrease in impurity(using Gini)
glucose< 127.5
0
500/268
age< 28.5
0
391/94
bmi< 29.95
1
109/174
0
248/23
bmi< 26.35
0
143/71
0
51/24
glucose< 157.5
1
58/150
0
39/0
glucose< 99.5
0
104/71
age< 30.5
1
46/70
1
12/80
0
45/8
insulin< 112
1
59/63
bp>=73
0
27/23
1
19/47
0
12/1
dpf< 0.2
1
47/62
0
19/5
1
8/18
0
15/4
1
32/58

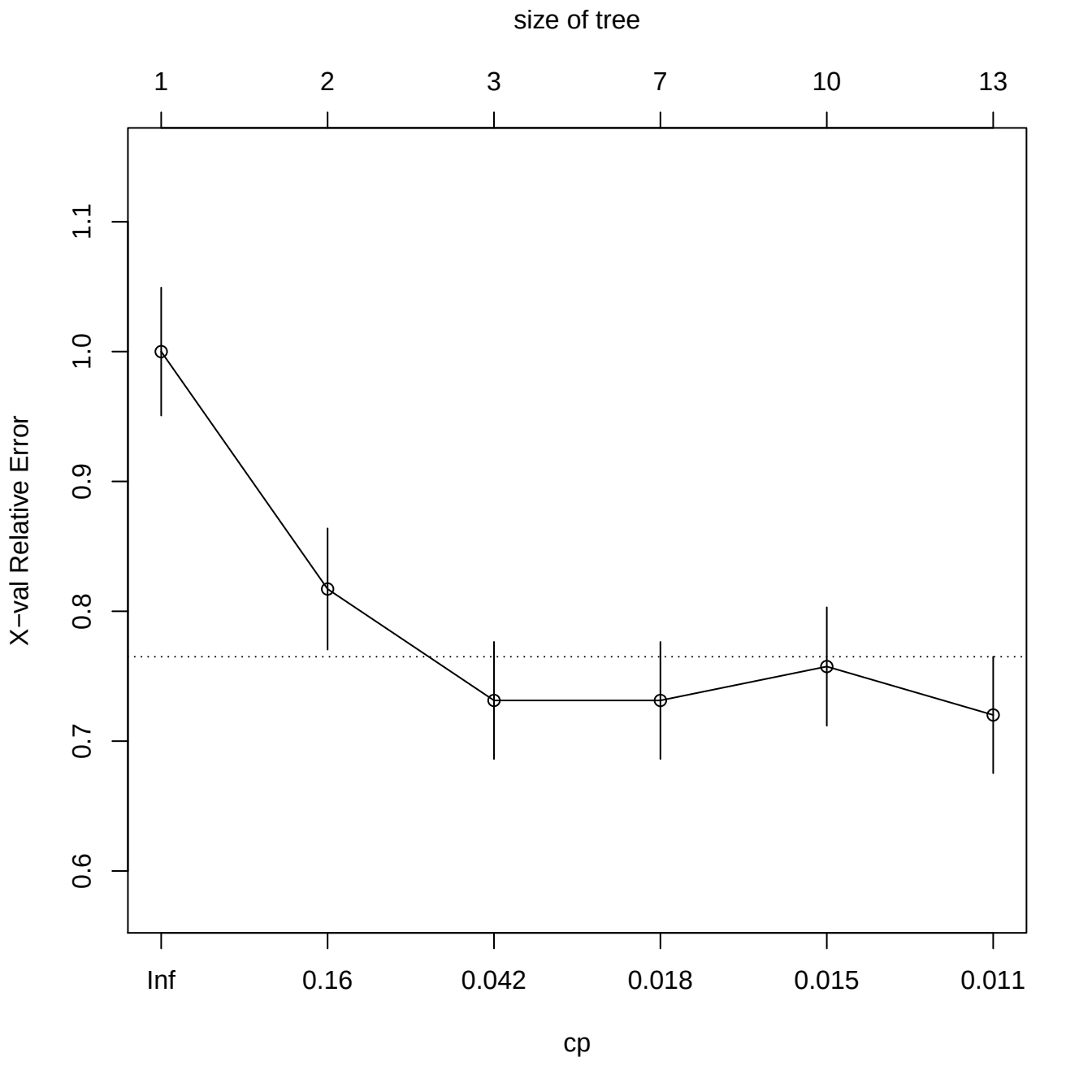

size of tree
1
2
3
8
11
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.044
0.018
0.016
cp


Threshold(0.02) on decrease in impurity(using Gini)
glucose< 127.5
0
500/268
0
391/94
bmi< 29.95
1
109/174
0
51/24
1
58/150

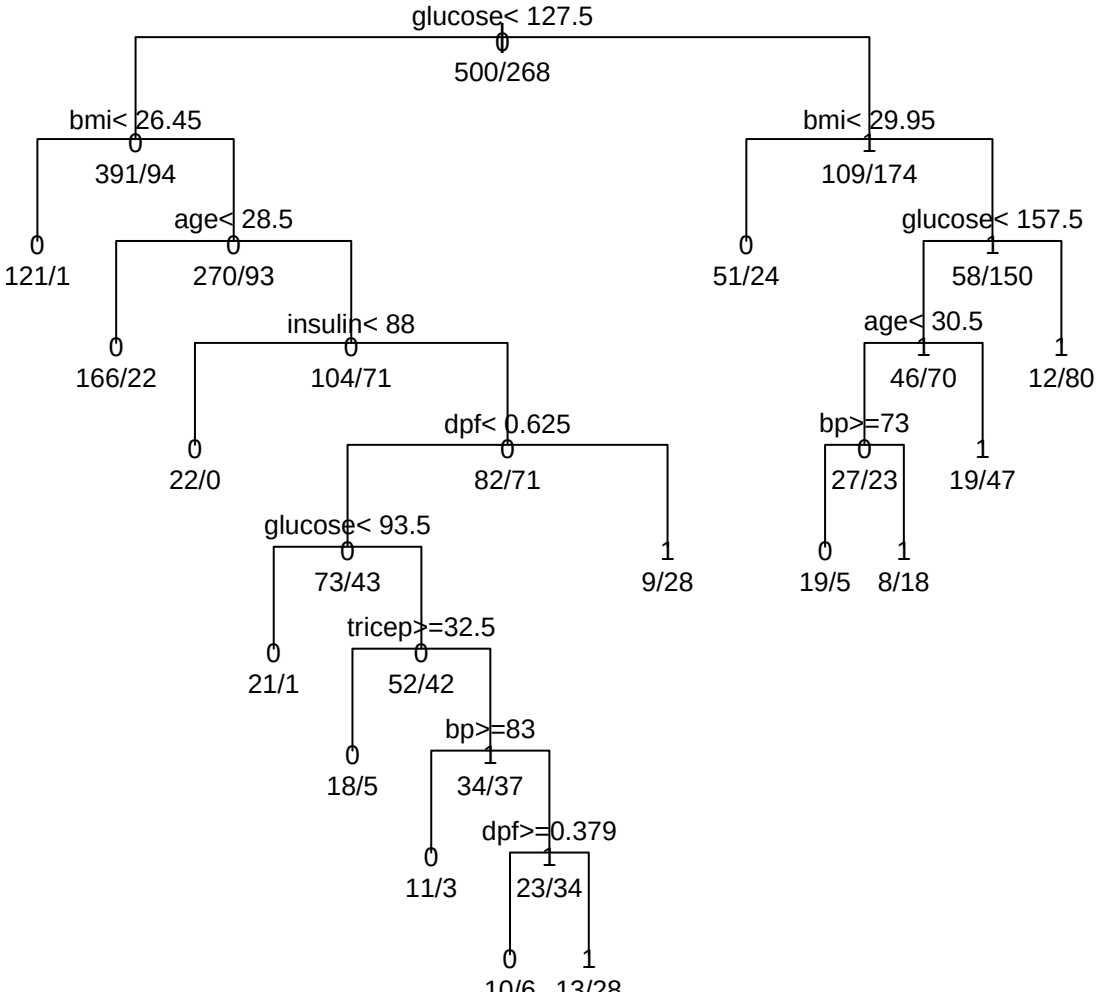

size of tree
1
2
3
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.045
cp

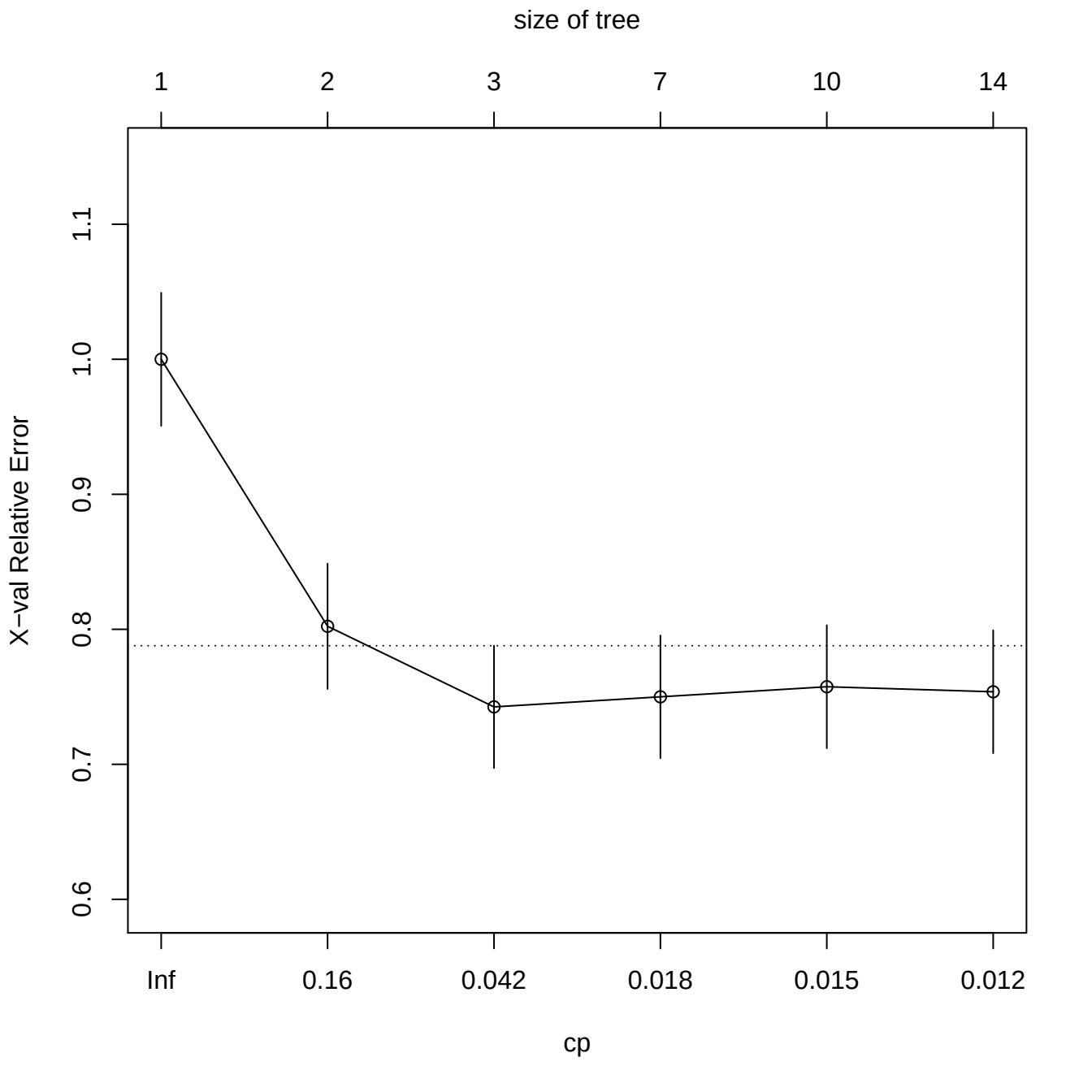
# Threshold(=5) on no.of data vectors at a node(using Information)



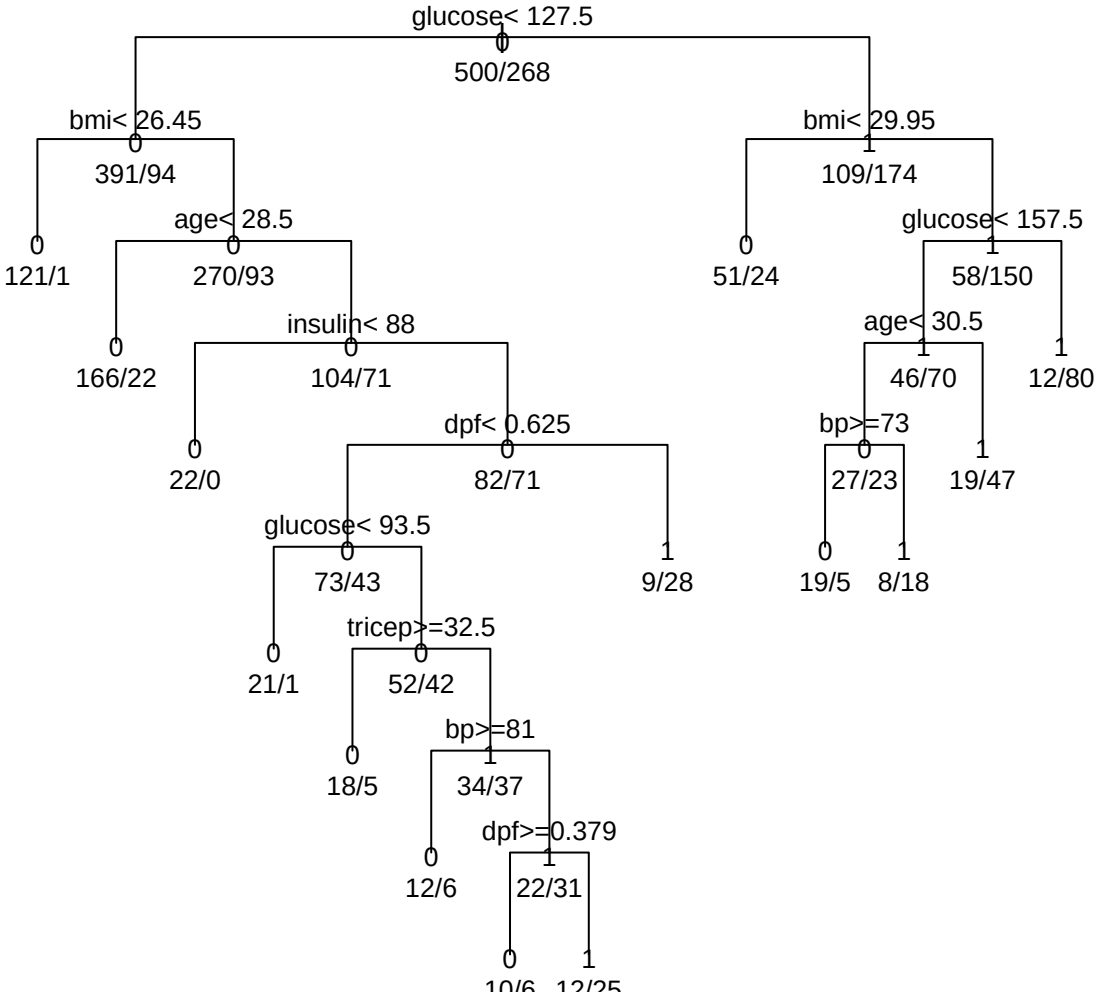

size of tree
1
2
3
7
10
13
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.042
0.018
0.015
0.011
cp

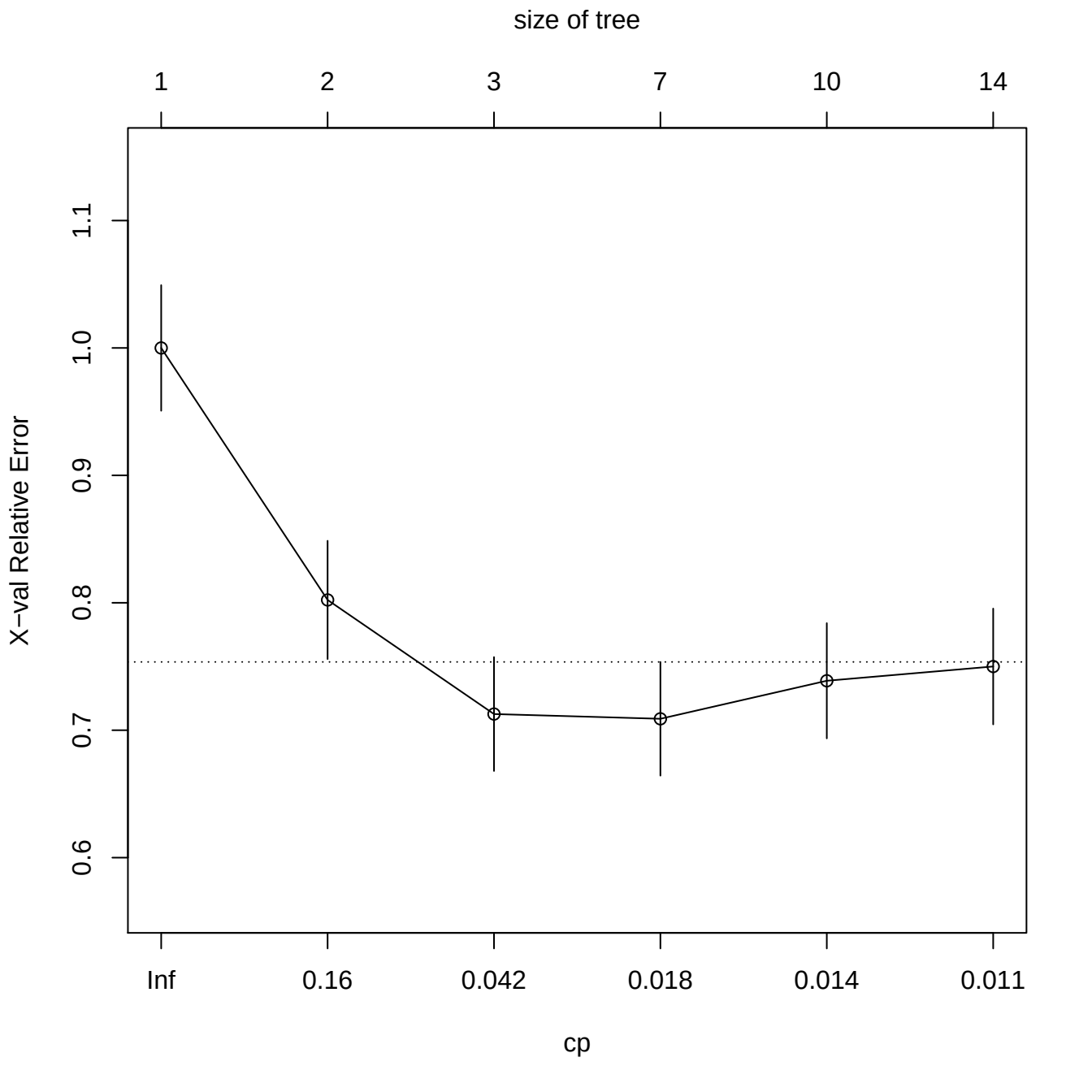
# Threshold(=10) on no.of data vectors at a node(using Information)



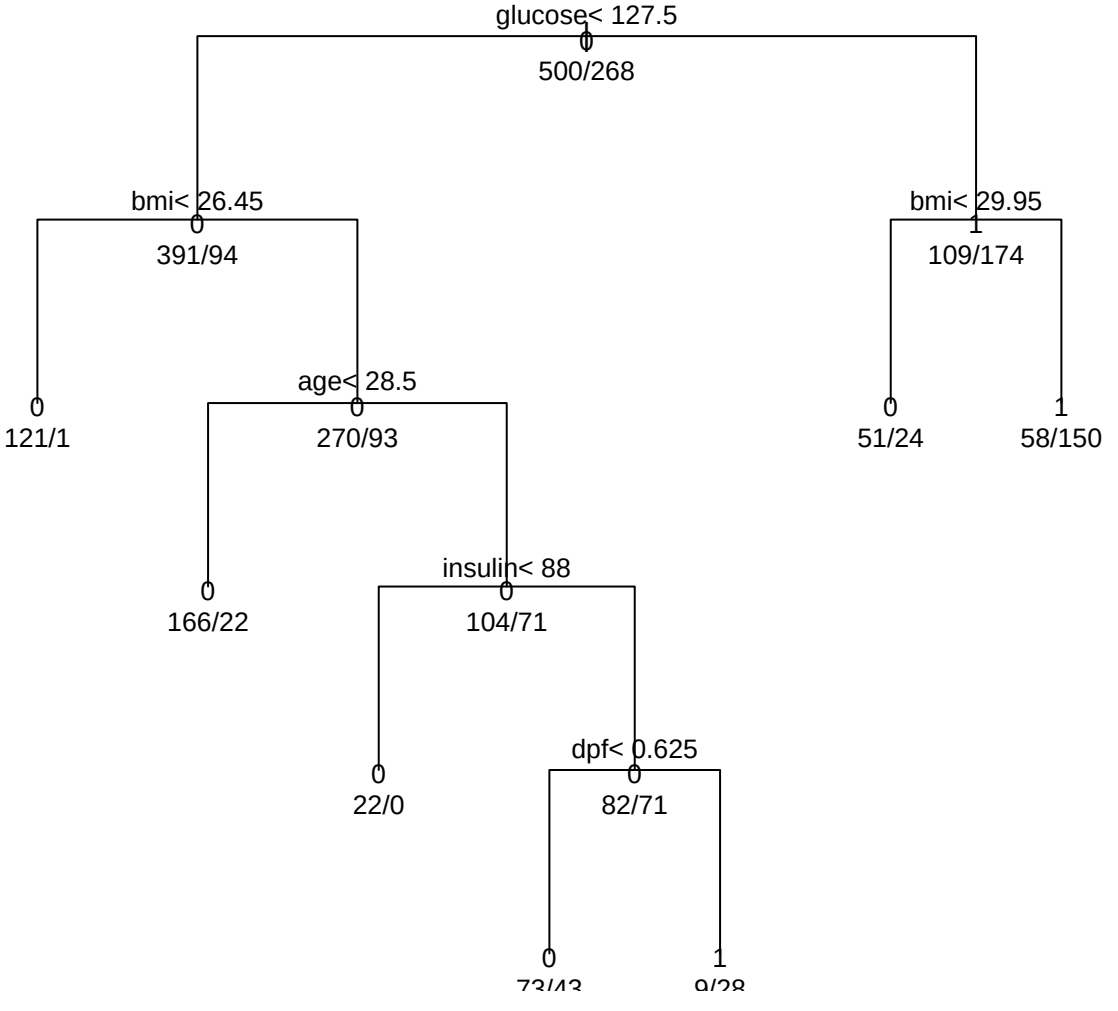

size of tree
1
2
3
7
10
14
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.042
0.018
0.015
0.012
cp

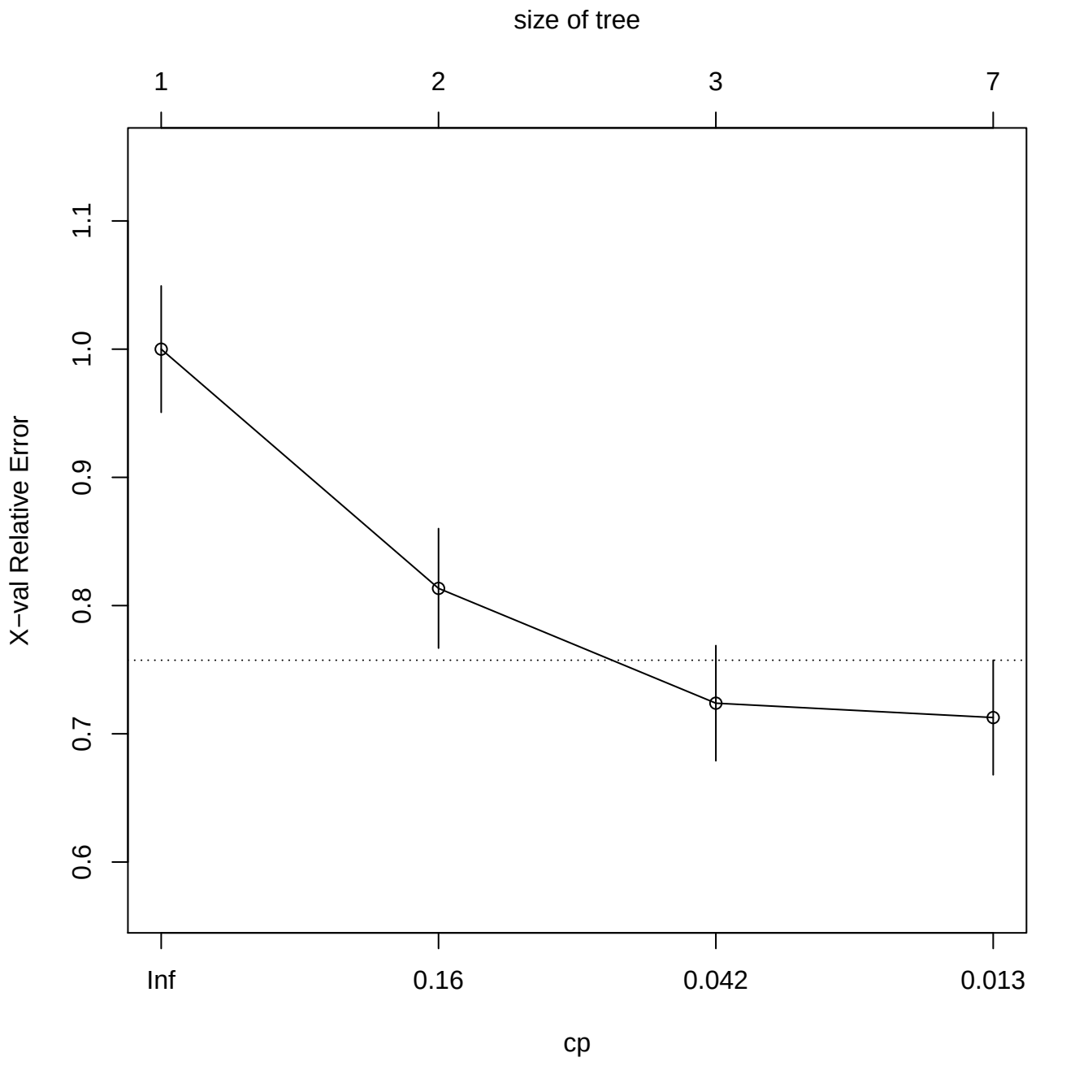
# Threshold(=15) on no.of data vectors at a node(using Information)

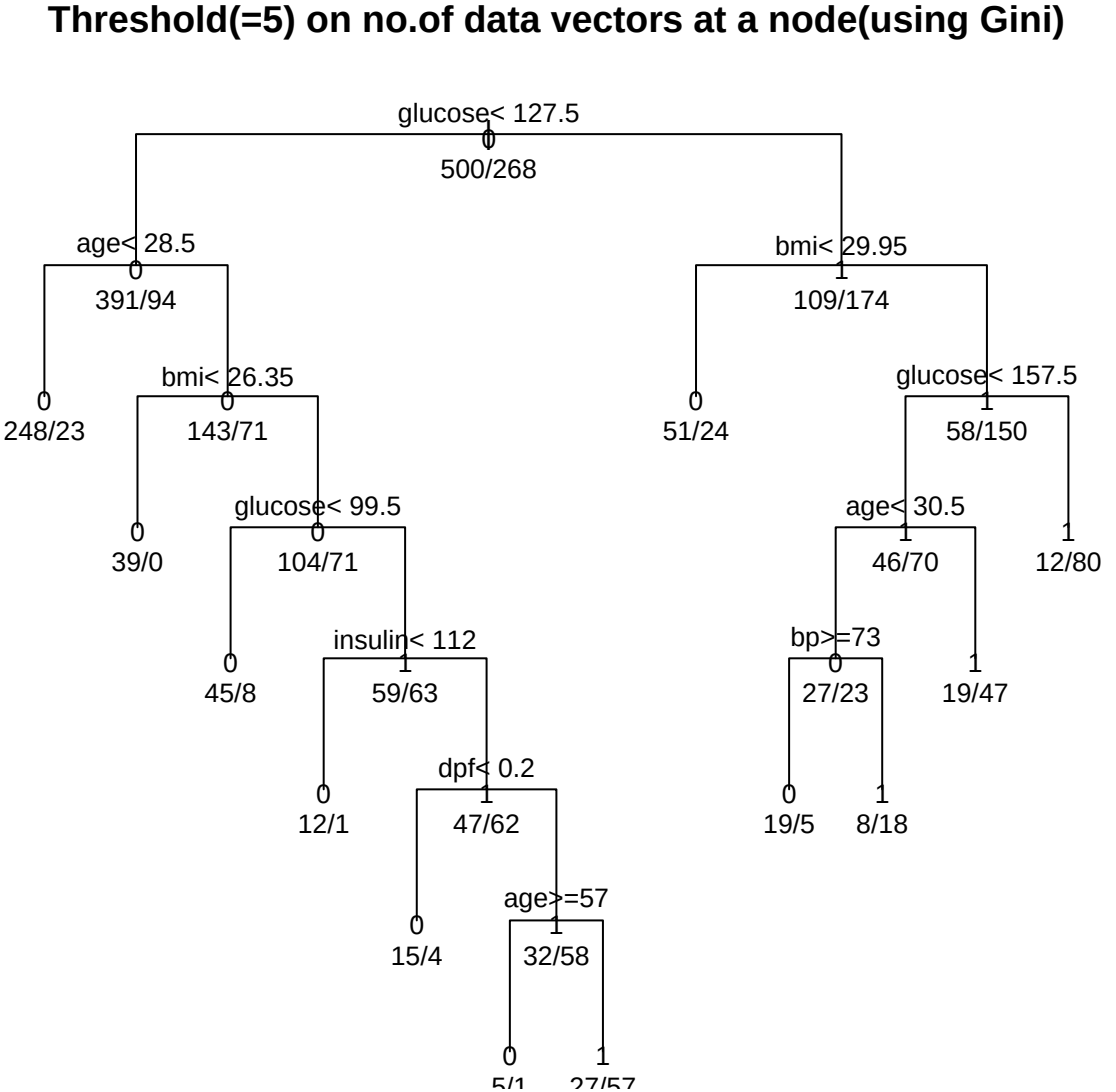


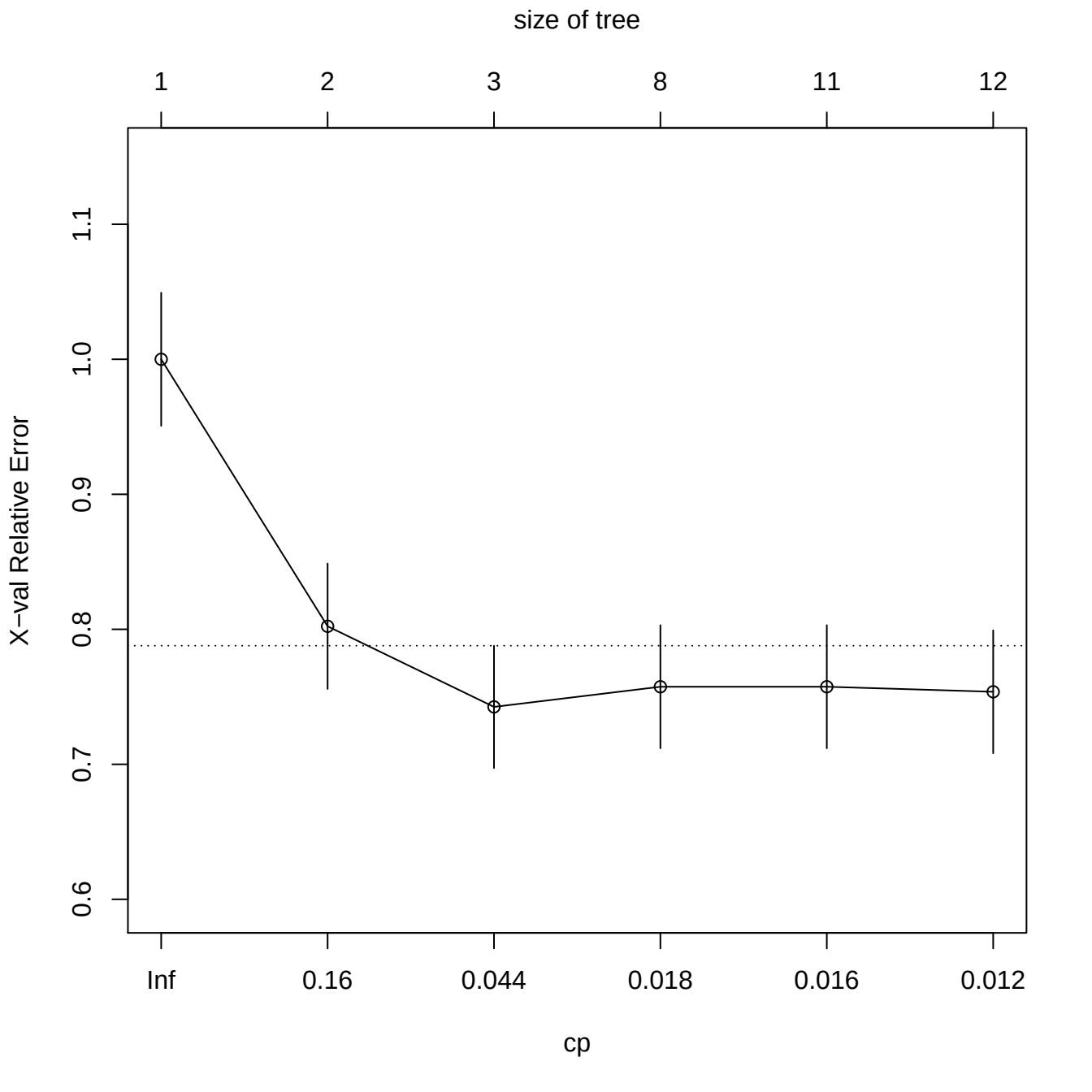

size of tree
1
2
3
7
10
14
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.042
0.018
0.014
0.011
cp

# Threshold(=20) on no.of data vectors at a node(using Information)

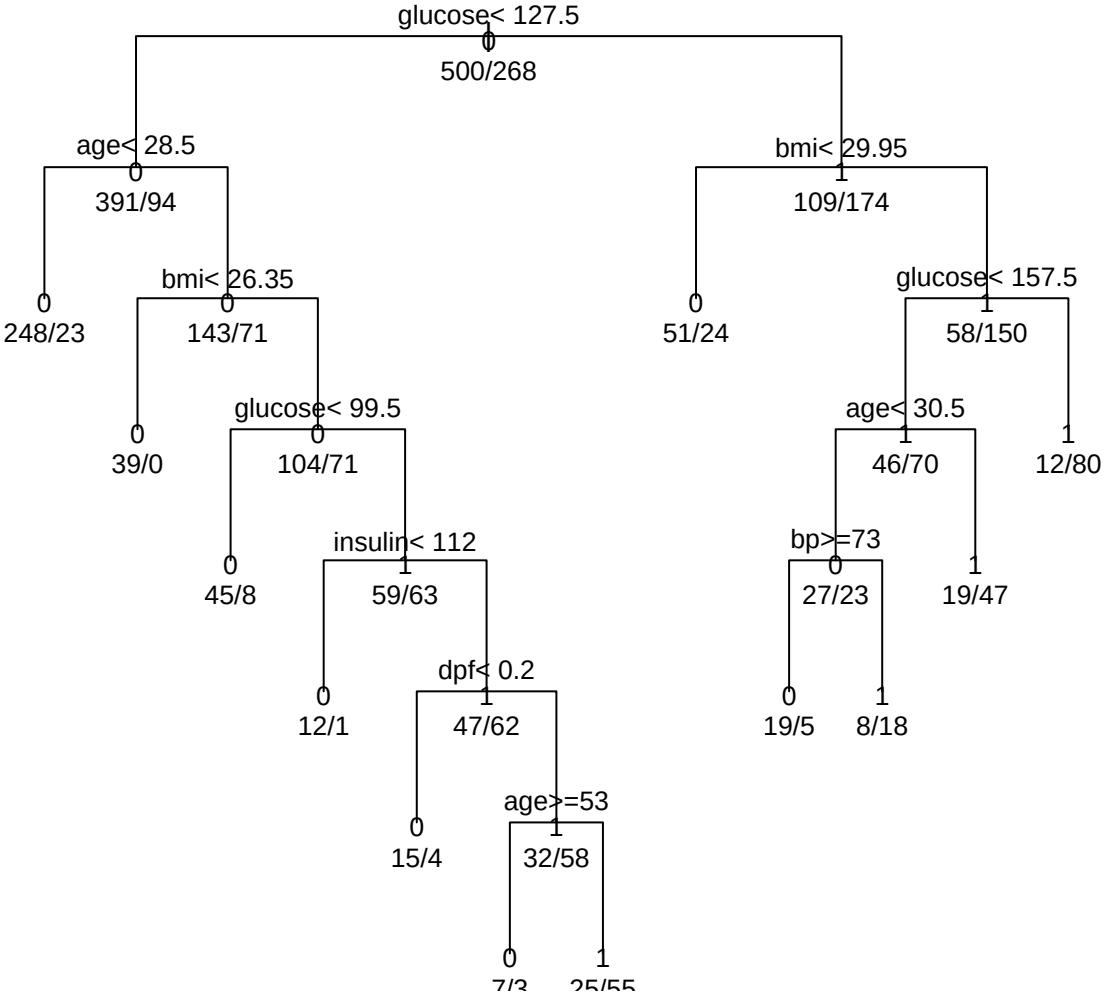


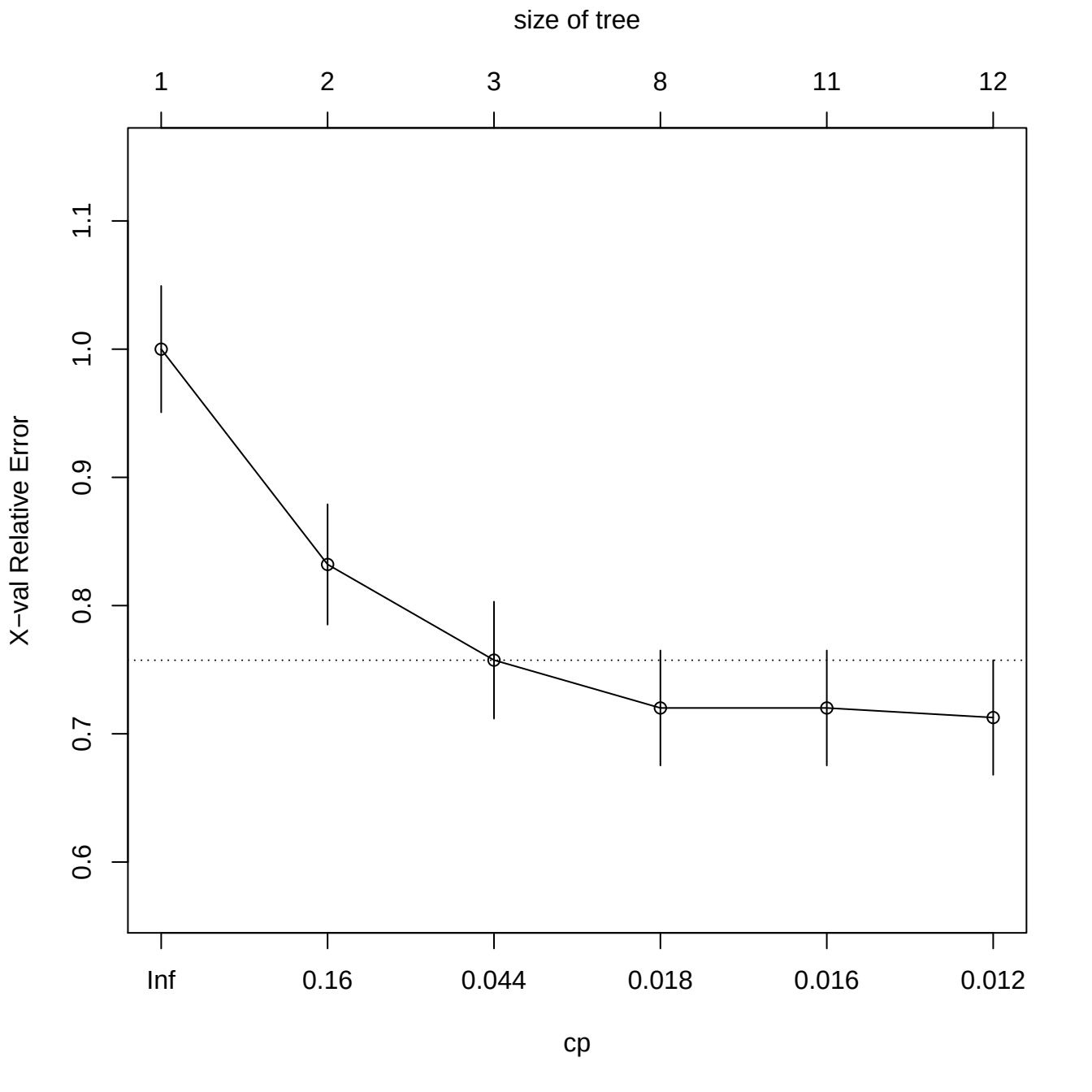

size of tree
1
2
3
7
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.042
0.013
cp


Threshold(=5) on no.of data vectors at a node(using Gini)
glucose< 127.5
0
500/268
age< 28.5
0
391/94
bmi< 29.95
1
109/174
0
248/23
bmi< 26.35
0
143/71
0
51/24
glucose< 157.5
1
58/150
0
39/0
glucose< 99.5
0
104/71
age< 30.5
1
46/70
1
12/80
0
45/8
insulin< 112
1
59/63
bp>=73
0
27/23
1
19/47
0
12/1
dpf< 0.2
1
47/62
0
19/5
1
8/18
0
15/4
age>=57
1
32/58
0
5/1
1
27/57

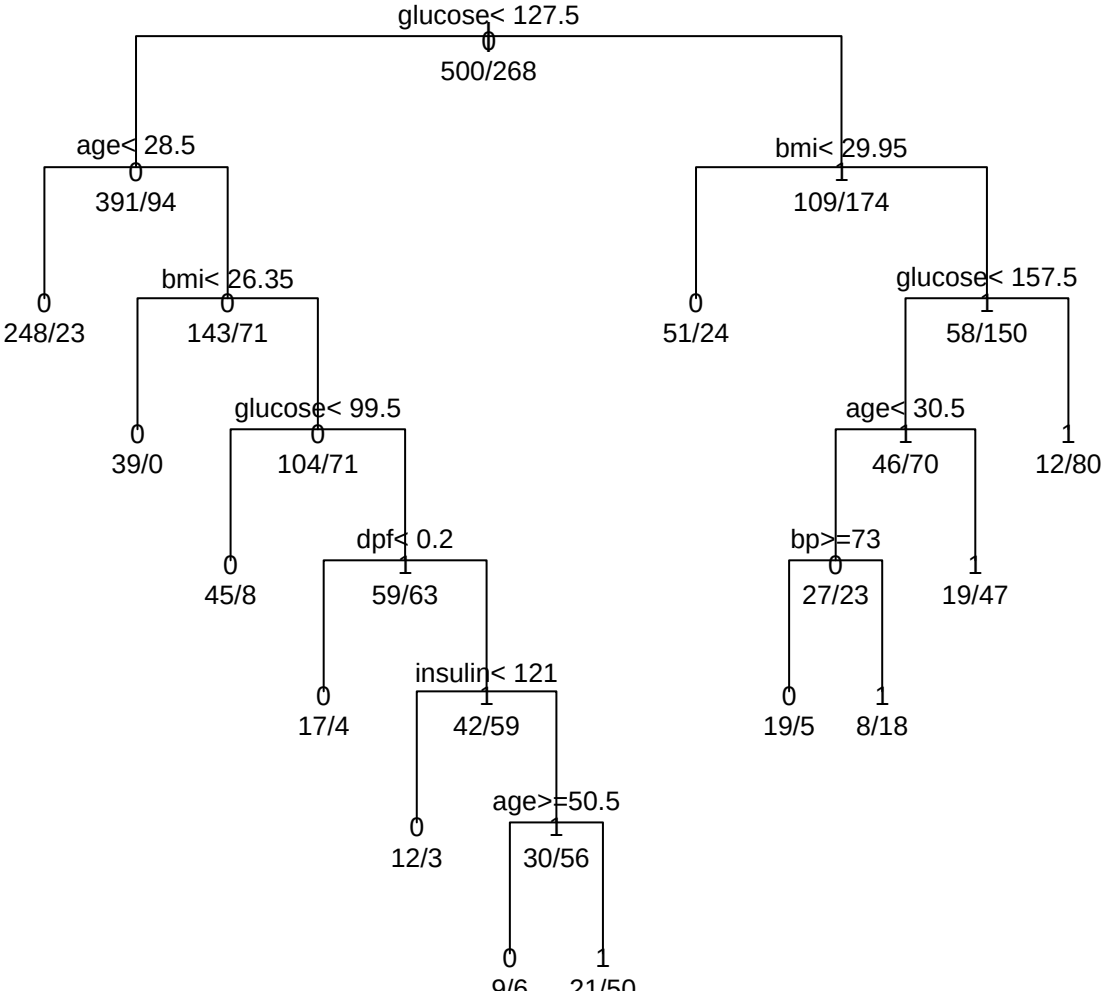

size of tree
1
2
3
8
11
12
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.044
0.018
0.016
0.012
cp

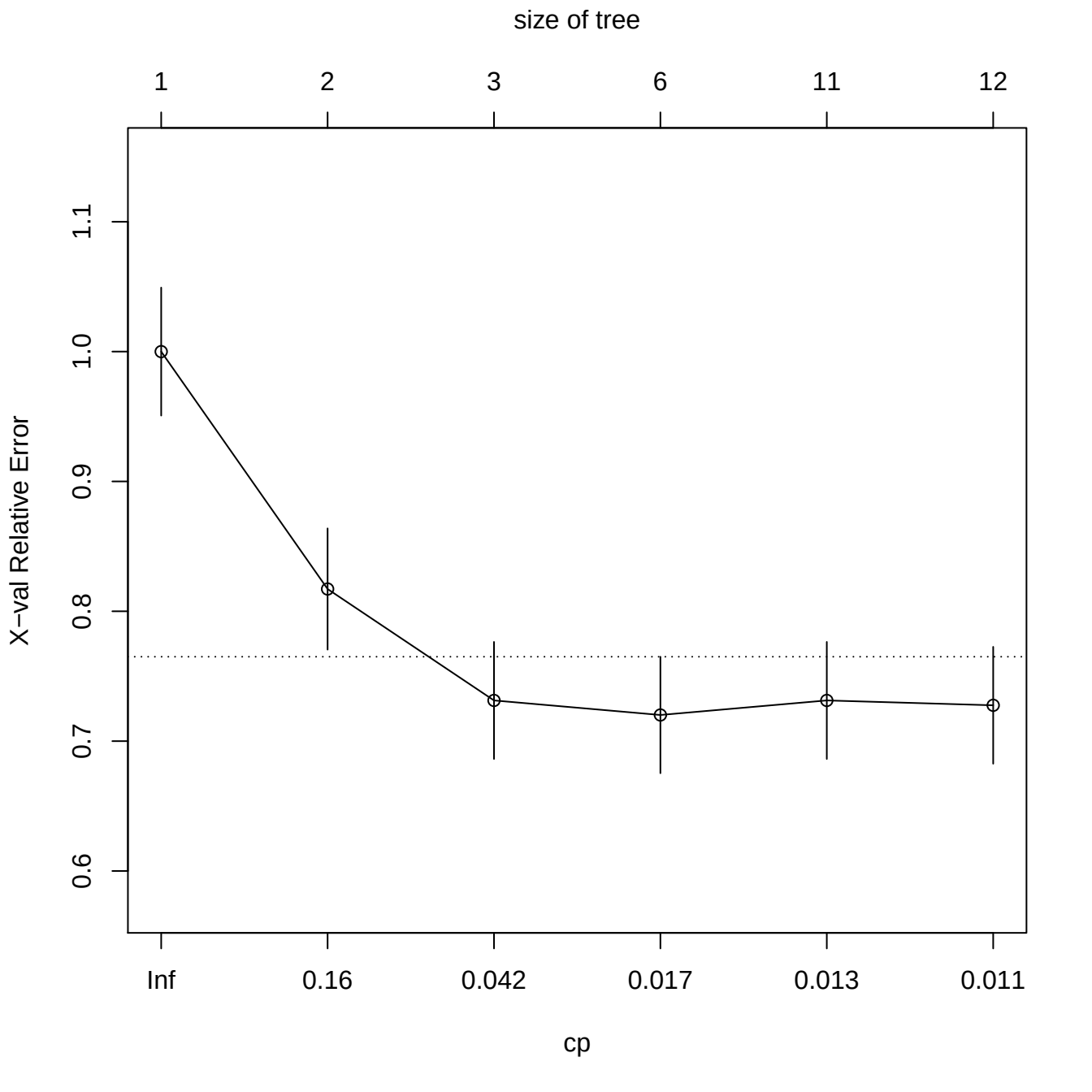
# Threshold(=10) on no.of data vectors at a node(using Gini)



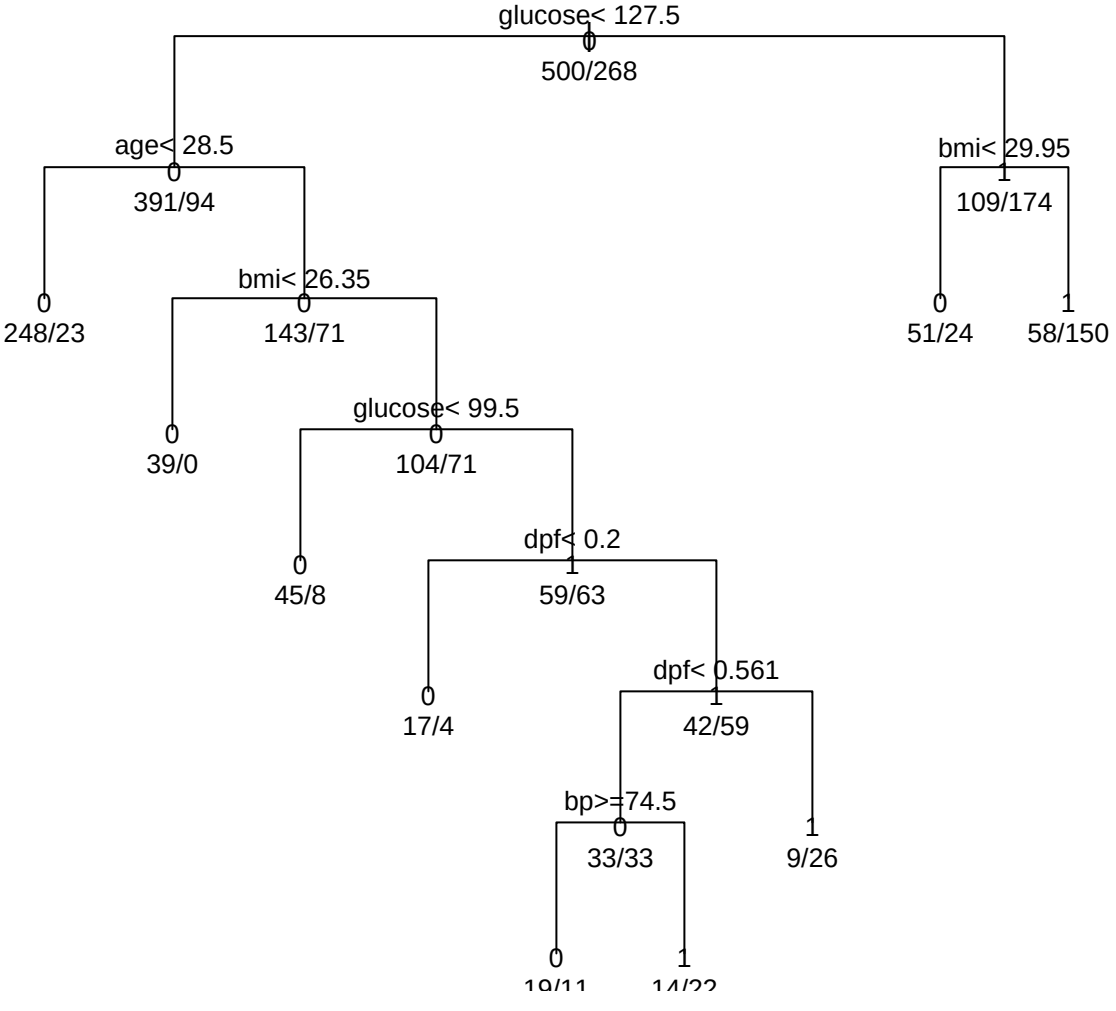

size of tree
1
2
3
8
11
12
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.044
0.018
0.016
0.012
cp

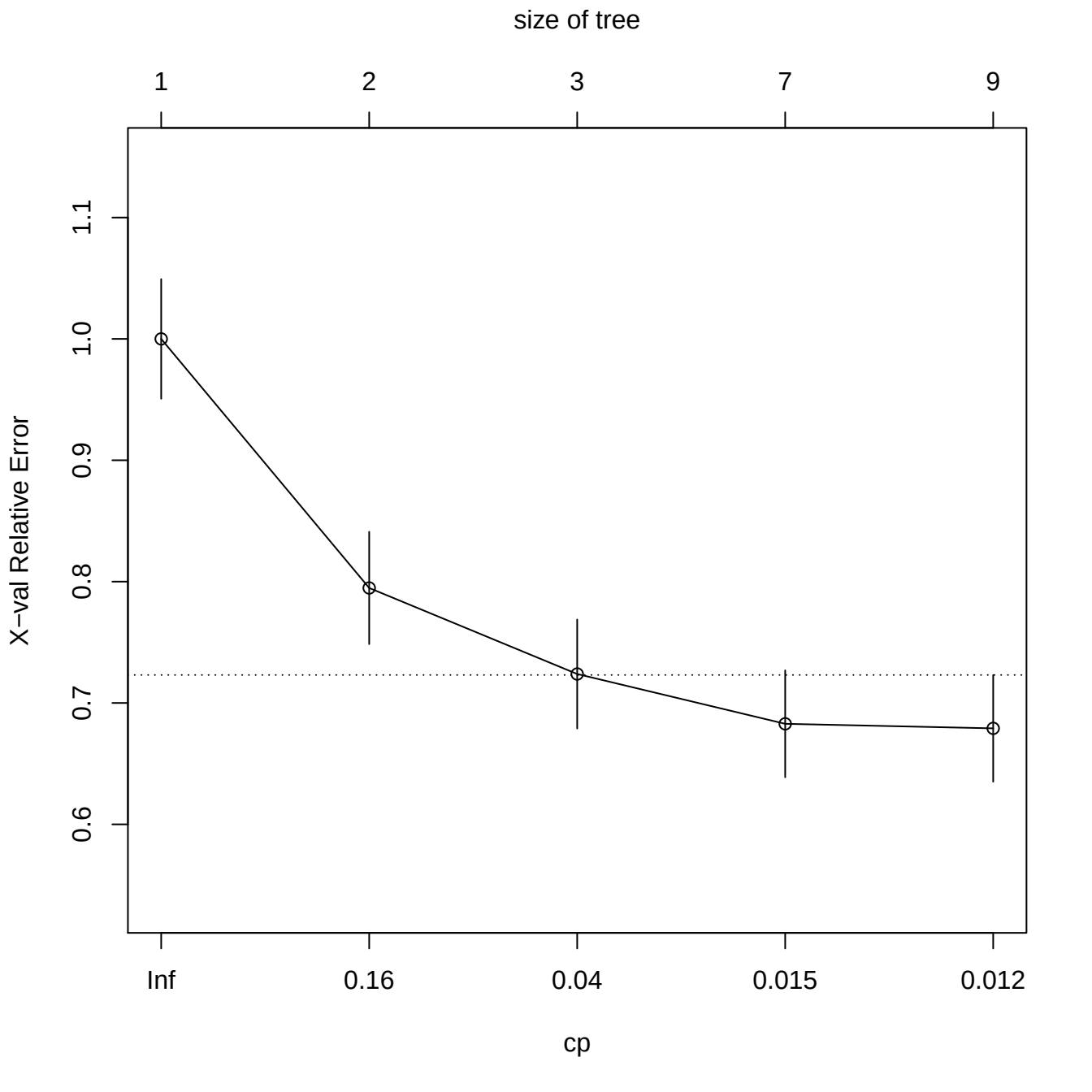
# Threshold(=15) on no.of data vectors at a node(using Gini)



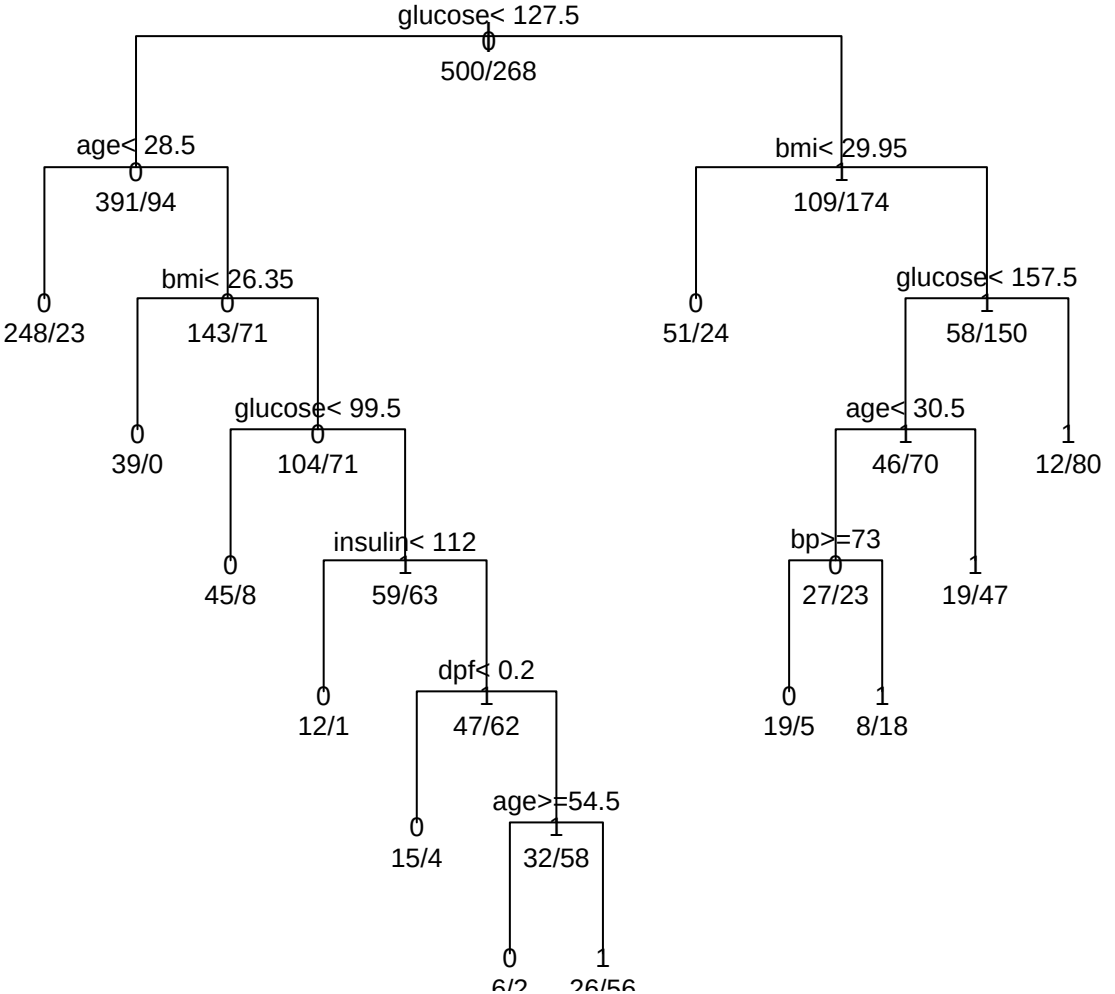

size of tree
1
2
3
6
11
12
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.042
0.017
0.013
0.011
cp

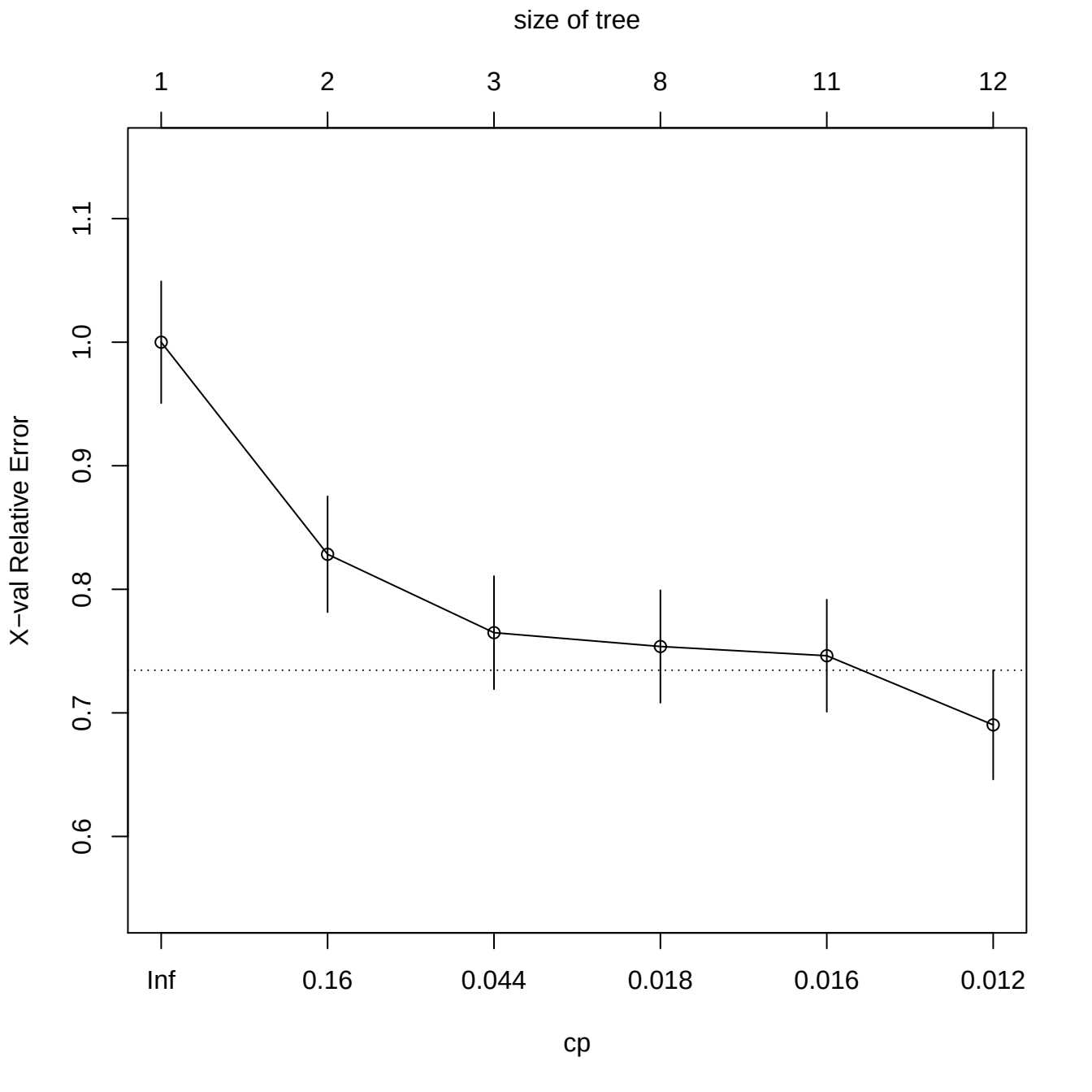
# Threshold(=20) on no.of data vectors at a node(using Gini)



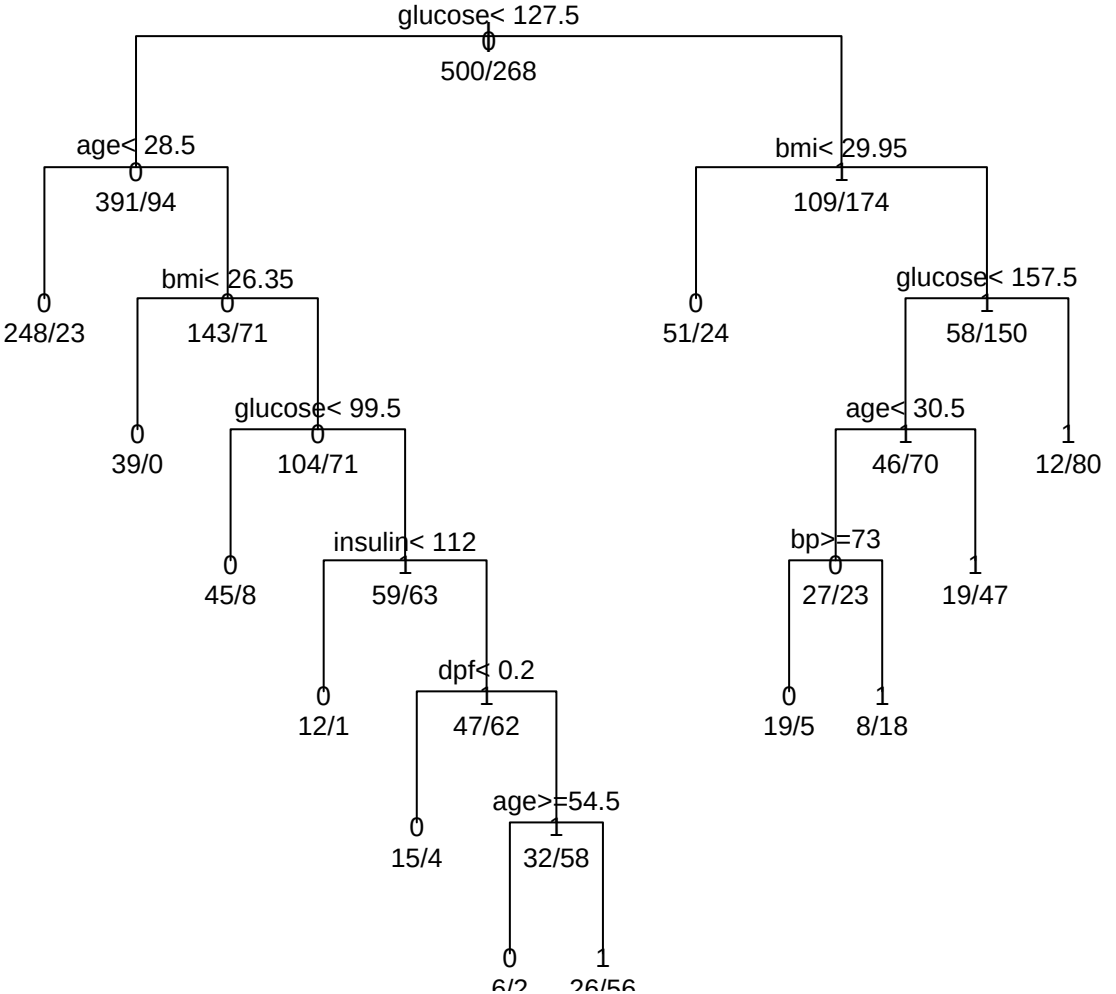

size of tree
1
2
3
7
9
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.04
0.015
0.012
cp

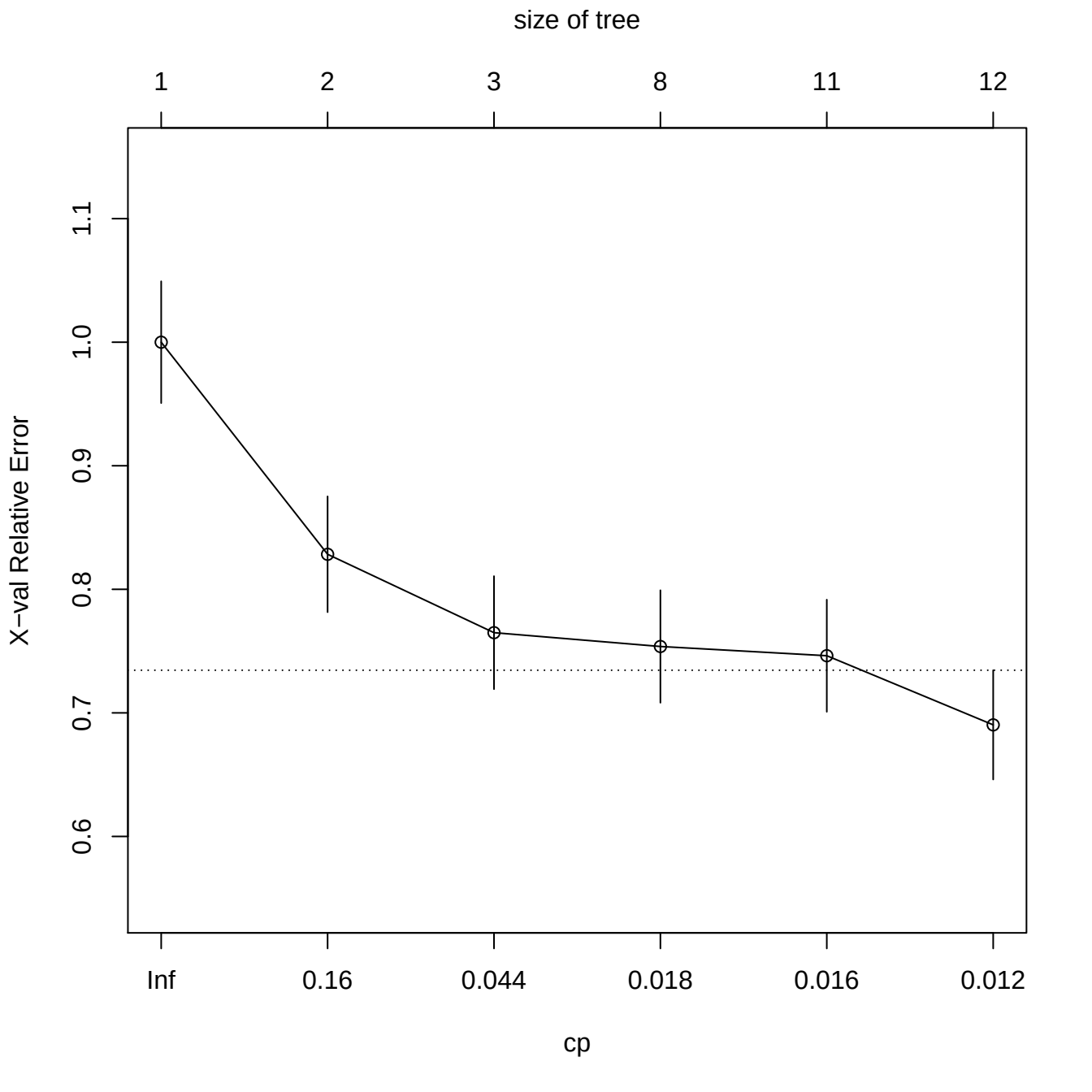
# Fully grown tree using gini function



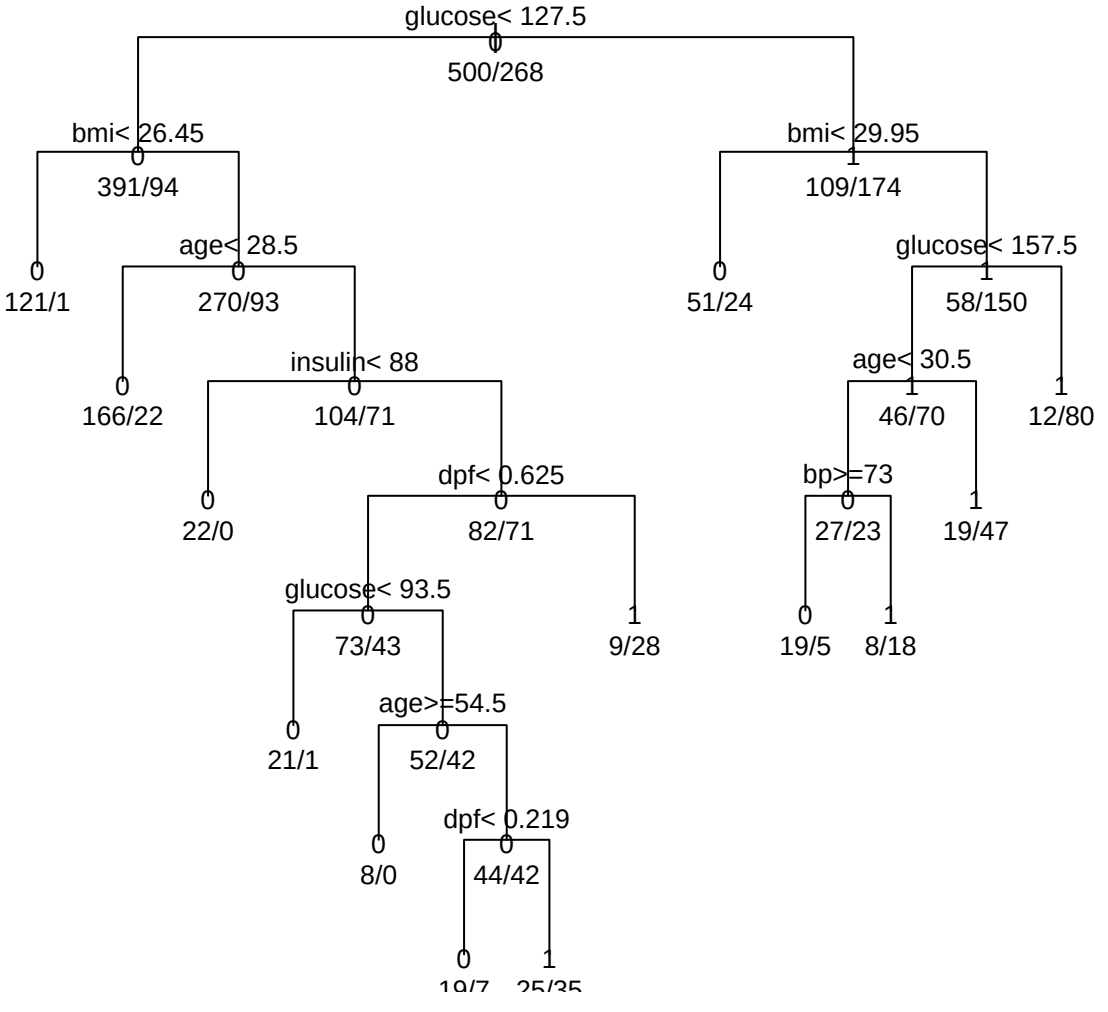

size of tree
1
2
3
8
11
12
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.044
0.018
0.016
0.012
cp

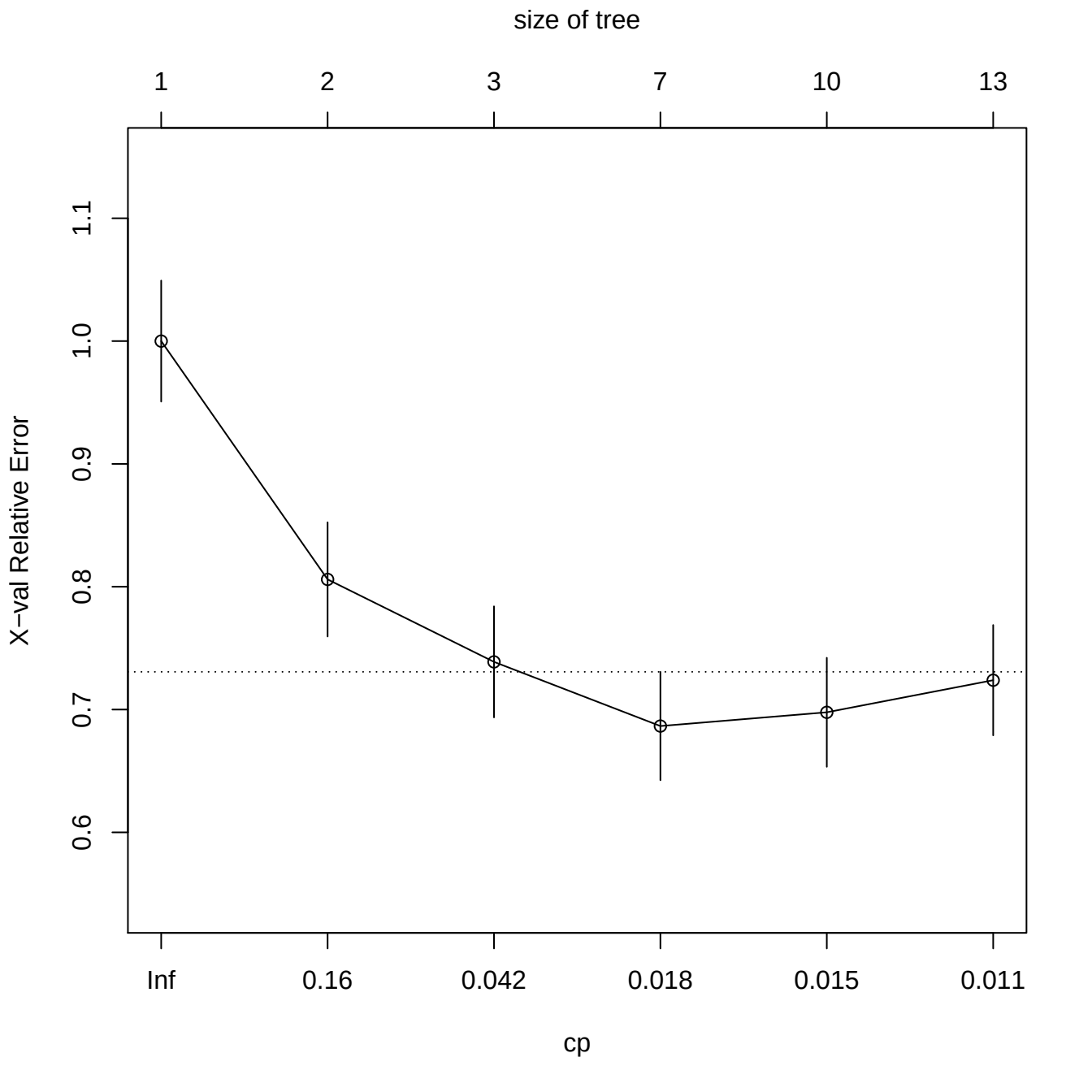
# Pruned tree after growing fully using gini function



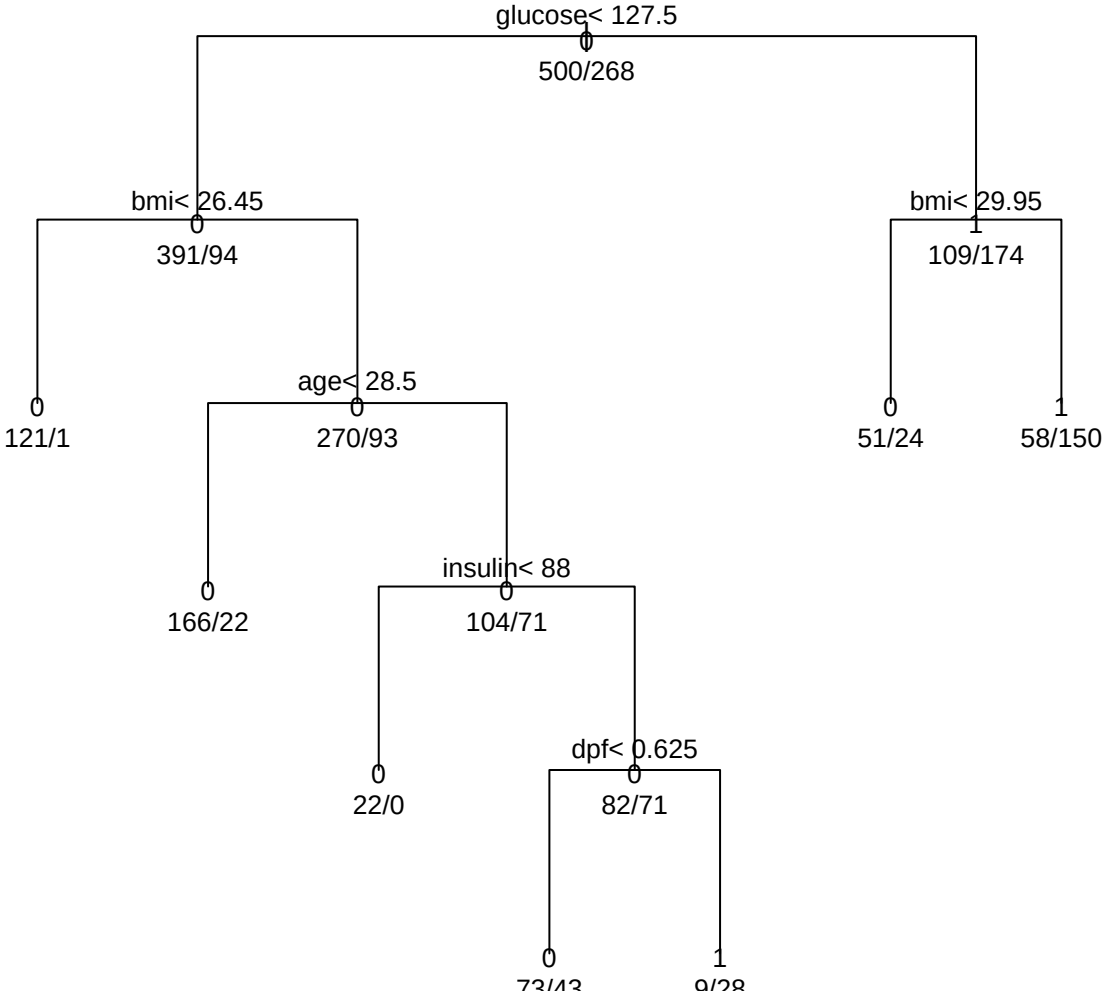

size of tree
1
2
3
8
11
12
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.044
0.018
0.016
0.012
cp

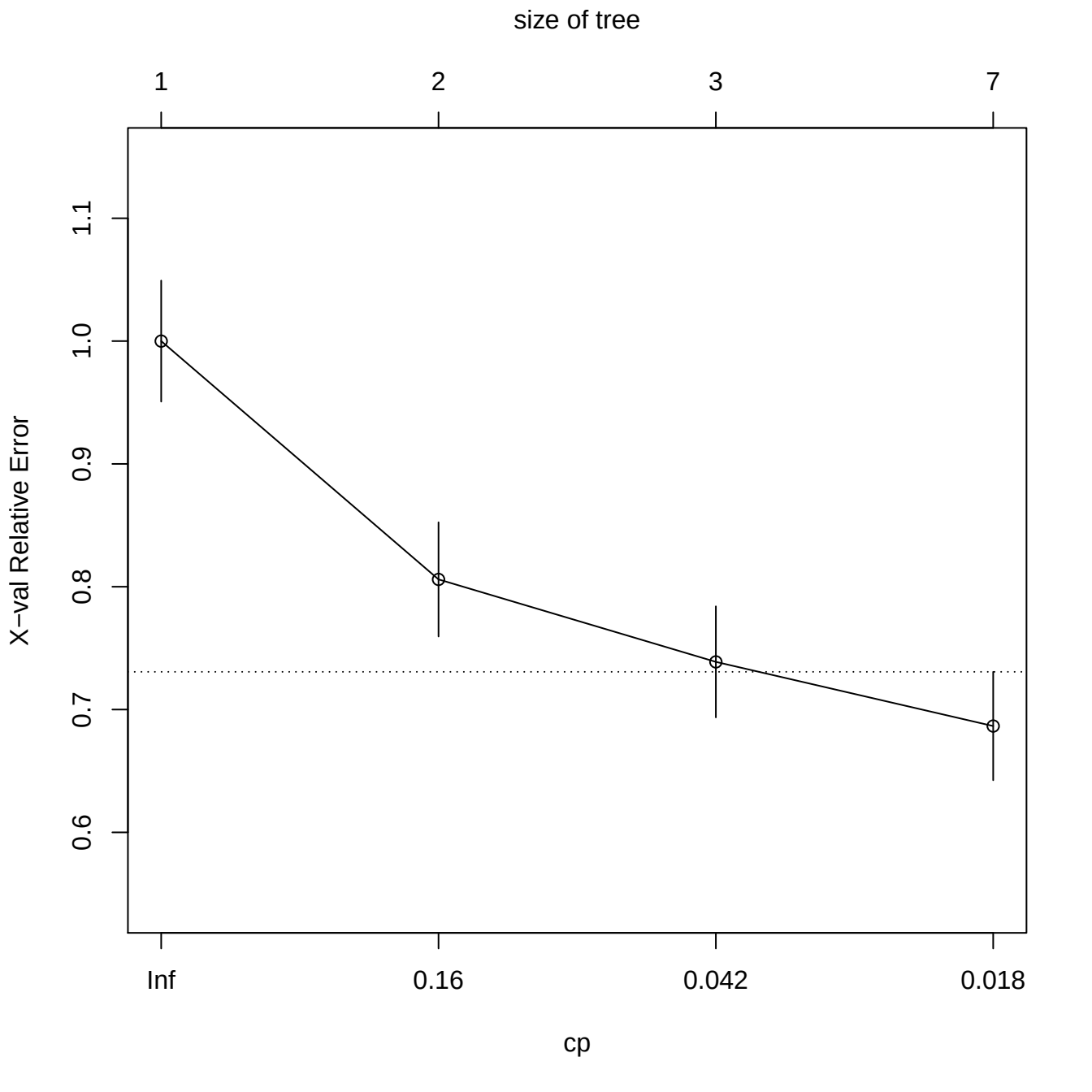
# Fully grown tree using information function




size of tree
1
2
3
7
10
13
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.042
0.018
0.015
0.011
cp

# Pruned tree using information function




size of tree
1
2
3
7
X−val Relative Error
0.6
0.7
0.8
0.9
1.0
1.1
Inf
0.16
0.042
0.018
cp