```
X[64] \le 0.5

gini = 0.49

samples = 20643

value = [11752, 8891]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X[9] <= 0.5
gini = 0.328
samples = 797
value = [165, 632]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[7] \le 0.5

gini = 0.5

samples = 561

value = [277, 284]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            X[46] \le 0.5

gini = 0.325

samples = 789

value = [161, 628]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     X[4] \le 0.5

gini = 0.49

samples = 20082

value = [11475, 8607]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gini = 0.5
samples = 8
value = [4, 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X[6] \le 0.5

gini = 0.5

samples = 560

value = [277, 283]

gini = 0.0 

samples = 1 

value = [0, 1]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            X[16] \le 0.5

gini = 0.323

samples = 786

value = [159, 627]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X[66] \le 0.5
gini = 0.49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X[36] \le 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gini = 0.45
samples = 384
value = [253, 131]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X[4] \le 0.5

gini = 0.5

samples = 559

value = [277, 282]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X[27] \le 0.5

gini = 0.318

samples = 770

value = [153, 617]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[45] <= 0.5
gini = 0.49
samples = 19687
value = [11220, 8467]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X[9] <= 0.5
gini = 0.445
samples = 380
value = [253, 127]

gini = 0.0 

samples = 4 

value = [0, 4]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gini = 0.298
samples = 11
value = [2, 9]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gini = 0.0
samples = 1
value = [0, 1]

\begin{array}{c}
\text{gini} = 0.48 \\
\text{samples} = 15 \\
\text{value} = [6, 9]
\end{array}

\begin{array}{c}
\text{gini} = 0.0 \\
\text{samples} = 1 \\
\text{value} = [0, 1]
\end{array}

\begin{array}{c}
gini = 0.5 \\
samples = 546 \\
value = [271, 275]
\end{array}

gini = 0.497 \\
samples = 13 \\
value = [6, 7]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X[4] \le 0.5

gini = 0.382

samples = 132

value = [34, 98]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X[21] <= 0.5
gini = 0.49
samples = 19661
value = [11200, 8461]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[44] <= 0.5
gini = 0.303
samples = 638
value = [119, 519]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[20] <= 0.5
gini = 0.443
samples = 378
value = [253, 125]

gini = 0.0 

samples = 2 

value = [0, 2]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gini = 0.355
samples = 26
value = [20, 6]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[8] <= 0.5
gini = 0.447
samples = 371
value = [246, 125]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \begin{array}{c} \text{gini} = 0.408 \\ \text{samples} = 28 \\ \text{value} = [8, 20] \end{array} \quad \begin{array}{c} \text{gini} = 0.386 \\ \text{samples} = 130 \\ \text{value} = [34, 96] \end{array} \quad \begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 2 \\ \text{value} = [0, 2] \end{array}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            X[60] \le 0.5

gini = 0.49

samples = 19658

value = [11200, 8458]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gini = 0.0
samples = 3
value = [0, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[30] \le 0.5

gini = 0.298

samples = 610

value = [111, 499]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gini = 0.0
samples = 7
value = [7, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[63] \le 0.5

gini = 0.45

samples = 365

value = [240, 125]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            X[13] \le 0.5

gini = 0.294

samples = 598

value = [107, 491]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X[40] \le 0.5

gini = 0.491

samples = 19203

value = [10921, 8282]
X[2] \le 0.5

gini = 0.474

samples = 455

value = [279, 176]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gini = 0.444
samples = 12
value = [4, 8]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gini = 0.0
samples = 6
value = [6, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[23] \le 0.5
gini = 0.461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[48] \le 0.5

gini = 0.291

samples = 589

value = [104, 485]
X[4] \le 0.5

gini = 0.444

samples = 9

value = [3, 6]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gini = 0.366

\begin{array}{c}
gm1 = 0.461 \\
samples = 311 \\
value = [199, 112]
\end{array}

\begin{array}{c}
samples = 54 \\
value = [41, 13]
\end{array}

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X[38] <= 0.5
gini = 0.491
samples = 19008
value = [10793, 8215]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X[43] \le 0.5

gini = 0.283

samples = 533

value = [91, 442]
X[4] \le 0.5

gini = 0.357

samples = 56

value = [13, 43]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \begin{array}{|c|c|c|c|}\hline gini = 0.469 \\ samples = 8 \\ value = [3, 5] \\ \hline & gini = 0.0 \\ samples = 1 \\ value = [0, 1] \\ \hline \end{array}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            X[14] <= 0.5
gini = 0.466
samples = 292
value = [184, 108]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gini = 0.332
samples = 19
value = [15, 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gini = 0.454
samples = 109
value = [71, 38]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gini = 0.366

samples = 54

value = [13, 41]

gini = 0.0

samples = 2

value = [0, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[64] \le 0.5

gini = 0.288

samples = 504

value = [88, 416]
X[4] \le 0.5

gini = 0.185

samples = 29

value = [3, 26]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gini = 0.388
samples = 38
value = [28, 10]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[11] <= 0.5
gini = 0.491
samples = 18947
value = [10752, 8195]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X[43] \le 0.5

gini = 0.474

samples = 254

value = [156, 98]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gini = 0.441
samples = 61
value = [41, 20]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[9] \le 0.5

gini = 0.491

samples = 18296

value = [10402, 7894]
X[7] \le 0.5

gini = 0.497

samples = 651

value = [350, 301]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X[56] <= 0.5
gini = 0.476
samples = 251
value = [153, 98]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X[40] \le 0.5

gini = 0.292

samples = 484

value = [86, 398]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \begin{array}{|c|c|c|c|c|}\hline gini = 0.18\\ samples = 20\\ value = [2, 18] \end{array} \quad \begin{array}{|c|c|c|c|c|c|}\hline gini = 0.133\\ samples = 28\\ value = [2, 26] \end{array} \quad \begin{array}{|c|c|c|c|c|c|}\hline gini = 0.0\\ samples = 1\\ value = [1, 0] \end{array}

gini = 0.0 

samples = 3 

value = [3, 0]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            X[66] \le 0.5

gini = 0.475

samples = 250

value = [153, 97]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[37] \le 0.5

gini = 0.294

samples = 481

value = [86, 395]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gini = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     X[6] \le 0.5

gini = 0.49

samples = 17952

value = [10221, 7731]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   X[3] \le 0.5

gini = 0.497

samples = 649

value = [350, 299]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gini = 0.0
samples = 3
value = [0, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gini = 0.499
samples = 344
value = [181, 163]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gini = 0.0
samples = 2
value = [0, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     X[61] <= 0.5
gini = 0.474
samples = 249
value = [153, 96]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X[65] \le 0.5

gini = 0.49

samples = 17945

value = [10219, 7726]
X[63] \le 0.5

gini = 0.408

samples = 7

value = [2, 5]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            X[34] <= 0.5
gini = 0.297
samples = 463
value = [84, 379]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \begin{array}{c} \text{gini} = 0.497 \\ \text{samples} = 648 \\ \text{value} = [349, 299] \end{array} \qquad \begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 1 \\ \text{value} = [1, 0] \end{array}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gini = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gini = 0.198
samples = 18
value = [2, 16]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[4] \le 0.5

gini = 0.294

samples = 442

value = [79, 363]
X[4] \le 0.5

gini = 0.363

samples = 21

value = [5, 16]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X[2] \le 0.5

gini = 0.473

samples = 248

value = [153, 95]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X[57] <= 0.5
gini = 0.49
samples = 17782
value = [10117, 7665]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X[19] \le 0.5

gini = 0.32

samples = 5

value = [1, 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gini = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gini = 0.468
samples = 163
value = [102, 61]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gini = 0.5
samples = 2
value = [1, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 7 \\ \text{value} = [0, 7] \end{array} \qquad \begin{array}{c} \text{gini} = 0.346 \\ \text{samples} = 18 \\ \text{value} = [4, 14] \end{array} \qquad \begin{array}{c} \text{gini} = 0.444 \\ \text{samples} = 3 \\ \text{value} = [1, 2] \end{array}

gini = 0.0 

samples = 2 

value = [0, 2]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X[48] \le 0.5

gini = 0.49

samples = 17733

value = [10094, 7639]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gini = 0.498
samples = 49
value = [23, 26]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gini = 0.444
samples = 3
value = [1, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X[47] \le 0.5

gini = 0.471

samples = 247

value = [153, 94]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gini = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[32] <= 0.5
gini = 0.297
samples = 435
value = [79, 356]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X[5] \le 0.5

gini = 0.49

samples = 16326

value = [9318, 7008]
X[5] \le 0.5

gini = 0.495

samples = 1407

value = [776, 631]

gini = 0.0 

samples = 2 

value = [0, 2]

gini = 0.0 

samples = 1 

value = [0, 1]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   X[57] \le 0.5

gini = 0.298

samples = 433

value = [79, 354]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[26] \le 0.5

gini = 0.47

samples = 246

value = [153, 93]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X[18] \le 0.5

gini = 0.299

samples = 431

value = [79, 352]
gini = 0.0

samples = 2

value = [0, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gini = 0.0
samples = 1
value = [1, 0]

gini = 0.0 

samples = 1 

value = [0, 1]

gini = 0.0 

samples = 2 

value = [0, 2]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X[7] <= 0.5

gini = 0.495

samples = 1406

value = [775, 631]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   X[42] \le 0.5

gini = 0.469

samples = 245

value = [153, 92]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X[47] \le 0.5

gini = 0.49

samples = 16324

value = [9318, 7006]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[11] <= 0.5
gini = 0.468
samples = 244
value = [153, 91]

\begin{array}{c}
\text{gini} = 0.0 \\
\text{samples} = 1 \\
\text{value} = [0, 1]
\end{array}

\begin{array}{c}
X[62] <= 0.5 \\
\text{gini} = 0.3 \\
\text{samples} = 429 \\
\text{value} = [79, 350]
\end{array}

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[18] <= 0.5
gini = 0.49
samples = 16151
value = [9228, 6923]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gini = 0.0
samples = 2
value = [0, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gini = 0.499
samples = 173
value = [90, 83]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gini = 0.495
samples = 1404
value = [774, 630]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gini = 0.5
samples = 2
value = [1, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[54] <= 0.5
gini = 0.302
samples = 427
value = [79, 348]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[30] \le 0.5

gini = 0.49

samples = 16132

value = [9220, 6912]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[50] \le 0.5

gini = 0.465

samples = 237

value = [150, 87]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gini = 0.49
samples = 7
value = [3, 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gini = 0.0
samples = 2
value = [0, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gini = 0.488
samples = 19
value = [8, 11]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     X[19] <= 0.5
gini = 0.303
samples = 425
value = [79, 346]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X[65] \le 0.5

gini = 0.462

samples = 232

value = [148, 84]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gini = 0.0
samples = 2
value = [0, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[7] \le 0.5

gini = 0.498

samples = 261

value = [139, 122]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[31] <= 0.5
gini = 0.49
samples = 15871
value = [9081, 6790]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gini = 0.48
samples = 5
value = [2, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X[58] <= 0.5
gini = 0.298
samples = 363
value = [66, 297]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X[57] \le 0.5

gini = 0.46

samples = 229

value = [147, 82]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gini = 0.331
samples = 62
value = [13, 49]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X[51] <= 0.5
gini = 0.49
samples = 15869
value = [9079, 6790]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gini = 0.498
samples = 260
value = [139, 121]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gini = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gini = 0.444
samples = 3
value = [1, 2]

gini = 0.0 

samples = 2 

value = [2, 0]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X[47] \le 0.5

gini = 0.298

samples = 362

value = [66, 296]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[15] \le 0.5

gini = 0.49

samples = 15867

value = [9077, 6790]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[25] \le 0.5

gini = 0.461

samples = 227

value = [145, 82]

gini = 0.0 

samples = 2 

value = [2, 0]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gini = 0.0
samples = 1
value = [0, 1]

gini = 0.0 

samples = 2 

value = [2, 0]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X[22] \le 0.5

gini = 0.463

samples = 225

value = [143, 82]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 2 \\ \text{value} = [2, 0] \end{array}
\begin{array}{c} X[7] <= 0.5 \\ \text{gini} = 0.299 \\ \text{samples} = 361 \\ \text{value} = [66, 295] \end{array}

gini = 0.0 

samples = 1 

value = [0, 1]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X[23] \le 0.5

gini = 0.49

samples = 15624

value = [8929, 6695]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gini = 0.476
samples = 243
value = [148, 95]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X[46] <= 0.5
gini = 0.465
samples = 223
value = [141, 82]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gini = 0.0

samples = 2

value = [2, 0]
X[53] \le 0.5
gini = 0.299

samples = 360

value = [66, 294]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[34] \le 0.5

gini = 0.49

samples = 15375

value = [8778, 6597]
X[7] \le 0.5

gini = 0.477

samples = 249

value = [151, 98]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gini = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X[33] <= 0.5
gini = 0.467
samples = 221
value = [139, 82]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[5] \le 0.5

gini = 0.3

samples = 359

value = [66, 293]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gini = 0.0
samples = 2
value = [2, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gini = 0.0
samples = 1
value = [1, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X[63] <= 0.5
gini = 0.49
samples = 14807
value = [8441, 6366]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gini = 0.483
samples = 568
value = [337, 231]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gini = 0.478
samples = 248
value = [150, 98]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gini = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[39] \le 0.5

gini = 0.301

samples = 358

value = [66, 292]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[8] \le 0.5

gini = 0.491

samples = 11065

value = [6280, 4785]
X[3] \le 0.5

gini = 0.488

samples = 3742

value = [2161, 1581]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X[62] \le 0.5

gini = 0.468

samples = 220

value = [138, 82]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gini = 0.0
samples = 1
value = [1, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gini = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[35] \le 0.5

gini = 0.468

samples = 219

value = [137, 82]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X[8] \le 0.5

gini = 0.298

samples = 335

value = [61, 274]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[7] \le 0.5

gini = 0.488

samples = 3741

value = [2160, 1581]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[7] <= 0.5
gini = 0.486
samples = 720
value = [421, 299]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X[59] <= 0.5
gini = 0.491
samples = 10345
value = [5859, 4486]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gini = 0.0
samples = 1
value = [1, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \begin{array}{c} \text{gini} = 0.0\\ \text{samples} = 1\\ \text{value} = [1, 0] \end{array}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gini = 0.34
samples = 23
value = [5, 18]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[15] \le 0.5

gini = 0.301

samples = 309

value = [57, 252]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[37] \le 0.5

gini = 0.469

samples = 218

value = [136, 82]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gini = 0.444
samples = 3
value = [2, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     X[26] <= 0.5
gini = 0.491
samples = 10344
value = [5858, 4486]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gini = 0.0
samples = 1
value = [1, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gini = 0.488
samples = 3738
value = [2158, 1580]

gini = 0.0 

samples = 2 

value = [2, 0]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gini = 0.26
samples = 26
value = [4, 22]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gini = 0.486
samples = 718
value = [419, 299]

gini = 0.0 

samples = 1 

value = [1, 0]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            X[15] \le 0.5

gini = 0.468

samples = 212

value = [133, 79]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[24] <= 0.5
gini = 0.491
samples = 10343
value = [5857, 4486]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gini = 0.0
samples = 1
value = [1, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gini = 0.5

samples = 6

value = [3, 3]
X[65] <= 0.5
gini = 0.299

samples = 295

value = [54, 241]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gini = 0.337
samples = 14
value = [3, 11]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X[52] \le 0.5

gini = 0.491

samples = 10342

value = [5856, 4486]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X[13] \le 0.5

gini = 0.466

samples = 208

value = [131, 77]

\begin{array}{c}
gini = 0.5 \\
samples = 4 \\
value = [2, 2]
\end{array}

X[12] <= 0.5 \\
gini = 0.3 \\
samples = 288 \\
value = [53, 235]

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gini = 0.0
samples = 1
value = [1, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gini = 0.245
samples = 7
value = [1, 6]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X[16] \le 0.5

gini = 0.491

samples = 10341

value = [5855, 4486]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   X[41] \le 0.5

gini = 0.465

samples = 204

value = [129, 75]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gini = 0.5
samples = 4
value = [2, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[29] \le 0.5

gini = 0.302

samples = 281

value = [52, 229]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gini = 0.245
samples = 7
value = [1, 6]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \begin{array}{c} \text{gini} = 0.0\\ \text{samples} = 1\\ \text{value} = [1, 0] \end{array}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[39] <= 0.5
gini = 0.466
samples = 200
value = [126, 74]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[20] <= 0.5
gini = 0.491
samples = 9787
value = [5551, 4236]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gini = 0.495
samples = 554
value = [304, 250]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X[11] \le 0.5

gini = 0.304

samples = 251

value = [47, 204]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gini = 0.278
samples = 30
value = [5, 25]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gini = 0.375
samples = 4
value = [3, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X[35] \le 0.5

gini = 0.491

samples = 9784

value = [5550, 4234]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[30] \le 0.5

gini = 0.468

samples = 193

value = [121, 72]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gini = 0.444
samples = 3
value = [1, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[13] \le 0.5

gini = 0.491

samples = 9777

value = [5547, 4230]
gini = 0.49

samples = 7

value = [3, 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gini = 0.5
samples = 2
value = [1, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X[63] \le 0.5

gini = 0.307

samples = 169

value = [32, 137]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[29] <= 0.5
gini = 0.491
samples = 9623
value = [5464, 4159]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gini = 0.497
samples = 154
value = [83, 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X[60] \le 0.5

gini = 0.466

samples = 189

value = [119, 70]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gini = 0.298
samples = 44
value = [8, 36]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \begin{array}{c} \text{gini} = 0.32 \\ \text{samples} = 10 \\ \text{value} = [2, 8] \end{array} \begin{array}{c} \text{gini} = 0.306 \\ \text{samples} = 159 \\ \text{value} = [30, 129] \end{array}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X[37] \le 0.5

gini = 0.49

samples = 8733

value = [4969, 3764]
X[2] \le 0.5

gini = 0.494

samples = 890

value = [495, 395]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[16] <= 0.5
gini = 0.465
samples = 182
value = [115, 67]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gini = 0.49
samples = 7
value = [4, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X[27] \le 0.5

gini = 0.463

samples = 159

value = [101, 58]
gini = 0.476

samples = 23

value = [14, 9]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[44] \le 0.5

gini = 0.49

samples = 8383

value = [4776, 3607]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \begin{array}{c} \text{gini} = 0.494 \\ \text{samples} = 889 \\ \text{value} = [494, 395] \end{array} \quad \begin{array}{c} \text{gini} = 0.0 \\ \text{samples} = 1 \\ \text{value} = [1, 0] \end{array}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gini = 0.495
samples = 350
value = [193, 157]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X[56] \le 0.5

gini = 0.49

samples = 7691

value = [4389, 3302]
X[7] \le 0.5

gini = 0.493

samples = 692

value = [387, 305]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[34] \le 0.5

gini = 0.46

samples = 120

value = [77, 43]
gini = 0.473

samples = 39

value = [24, 15]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     X[43] <= 0.5
gini = 0.49
samples = 7675
value = [4381, 3294]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gini = 0.493
samples = 691
value = [387, 304]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   gini = 0.5
samples = 16
value = [8, 8]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            X[44] \le 0.5

gini = 0.459

samples = 115

value = [74, 41]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gini = 0.48
samples = 5
value = [3, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gini = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[31] \le 0.5

gini = 0.46

samples = 109

value = [70, 39]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gini = 0.444
samples = 6
value = [4, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X[33] <= 0.5
gini = 0.49
samples = 7194
value = [4101, 3093]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gini = 0.487
samples = 481
value = [280, 201]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X[39] \le 0.5

gini = 0.49

samples = 7163

value = [4082, 3081]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gini = 0.475
samples = 31
value = [19, 12]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[53] <= 0.5
gini = 0.46
samples = 106
value = [68, 38]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gini = 0.444
samples = 3
value = [2, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[29] \le 0.5

gini = 0.46

samples = 103

value = [66, 37]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gini = 0.444
samples = 3
value = [2, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X[25] \le 0.5

gini = 0.49

samples = 6572

value = [3740, 2832]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gini = 0.488
samples = 591
value = [342, 249]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[49] <= 0.5
gini = 0.49
samples = 6561
value = [3733, 2828]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X[48] <= 0.5
gini = 0.461
samples = 89
value = [57, 32]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gini = 0.459
samples = 14
value = [9, 5]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gini = 0.463
samples = 11
value = [7, 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X[32] \le 0.5

gini = 0.49

samples = 6551

value = [3728, 2823]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gini = 0.5
samples = 10
value = [5, 5]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gini = 0.461

samples = 50

value = [32, 18]
gini = 0.46
samples = 39

value = [25, 14]
                                                                                                                                                                                                                                                                                                                                                                                                                                                            X[55] \le 0.5

gini = 0.49

samples = 6533

value = [3717, 2816]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gini = 0.475
samples = 18
value = [11, 7]
                                                                                                                                                                                                                                                                                                                                                                                                                                 X[61] \le 0.5

gini = 0.49

samples = 6505

value = [3702, 2803]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gini = 0.497
samples = 28
value = [15, 13]
                                                                                                                                                                                                                                                                                                                                                                                                  X[2] \le 0.5

gini = 0.49

samples = 6475

value = [3684, 2791]
X[2] \le 0.5

gini = 0.48

samples = 30

value = [18, 12]
                                                                                                                                                                                                                                                                                                                                                                                                       X[7] <= 0.5
gini = 0.491
samples = 6474
value = [3683, 2791]
                                                                                                                                                                                                                                                                                                                X[46] \le 0.5

gini = 0.491

samples = 6471

value = [3681, 2790]
X[19] \le 0.5

gini = 0.444

samples = 3

value = [2, 1]
                                                                                                                                                                                                                                                                                                                    X[42] \le 0.5

gini = 0.491

samples = 6384

value = [3630, 2754]
                                                                                                                                                                                                                                    X[10] \le 0.5
gini = 0.491
samples = 6380
                                                                                                                                                                                                                             value = [3628, 2752]
                                                                                                                                                                                                      X[53] \le 0.5

gini = 0.491

samples = 6376

value = [3626, 2750]
                                                                                                                                                                               X[17] \le 0.5

gini = 0.491

samples = 6327
                                                                                       X[19] \le 0.5

gini = 0.49

samples = 5029
                                                           X[58] <= 0.5
gini = 0.49
samples = 3351
                         X[28] \le 0.5

gini = 0.49

samples = 3244

value = [1847, 1397]
X[27] \le 0.5

gini = 0.49

samples = 3237
```

 $\begin{array}{c} \text{gini} = 0.491 \\ \text{samples} = 51 \\ \text{value} = [29, 22] \end{array} \qquad \begin{array}{c} \text{gini} = 0.49 \\ \text{samples} = 3186 \\ \text{value} = [1814, 1372] \end{array}$

 $X[0] \le 0.5$ gini = 0.494

samples = 21440