```
X[4274] <= 0.038
entropy = 0.493
samples = 900
value = [803, 97]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[8917] \le 0.012
entropy = 0.922
samples = 92
value = [31, 61]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X[7376] <= 0.015
entropy = 0.263
samples = 808
value = [772, 36]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[8945] <= 0.024
entropy = 0.96
samples = 34
value = [21, 13]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[5897] <= 0.066
entropy = 0.197
samples = 754
value = [731, 23]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X[1477] \le 0.049
entropy = 0.663
samples = 58
value = [10, 48]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X[6434] \le 0.023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entropy = 0.796
samples = 54
value = [41, 13]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X[7464] \le 0.067
entropy = 0.971
samples = 20
value = [8, 12] X[3122] \le 0.054
entropy = 0.371
samples = 14
value = [13, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[2186] <= 0.056
entropy = 0.55
samples = 55
value = [7, 48]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X[7901] \le 0.06
entropy = 0.177
samples = 751
value = [731, 20]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entropy = 0.0
samples = 3
value = [0, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[8945] \le 0.018
entropy = 0.68
samples = 50
value = [41, 9]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entropy = 0.0
samples = 4
value = [0, 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entropy = 0.0
samples = 3
value = [3, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[5476] <= 0.097
entropy = 0.391
samples = 52
value = [4, 48]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[5849] <= 0.008
entropy = 0.906
samples = 28
value = [19, 9]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entropy = 0.0
samples = 22
value = [22, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X[3251] <= 0.157
entropy = 0.144
samples = 733
value = [718, 15]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       X[6653] \le 0.044
entropy = 0.852
samples = 18
value = [13, 5]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[9267] <= 0.016
entropy = 0.961
samples = 13
value = [8, 5]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entropy = 0.0
samples = 3
value = [3, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X[8323] \le 0.13
entropy = 0.242
samples = 50
value = [2, 48]
entropy = 0.0
samples = 2
value = [2, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               X[3825] <= 0.046
entropy = 0.114
samples = 721
value = [710, 11]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X[293] \le 0.059
entropy = 0.567
samples = 15
value = [13, 2] entropy = 0.0
samples = 3
value = [0, 3] X[7376] \le 0.149
entropy = 0.738
samples = 24
value = [19, 5]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entropy = 0.0
samples = 4
value = [0, 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entropy = 0.0
samples = 5
value = [5, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[3387] <= 0.024
entropy = 0.954
samples = 8
value = [3, 5]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[7503] \le 0.061
entropy = 0.918
samples = 12
value = [8, 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  entropy = 0.0

samples = 2

value = [0, 2]
X[9267] <= 0.008
entropy = 0.722

samples = 10

value = [8, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   X[5351] \le 0.07
entropy = 0.31
samples = 18
value = [17, 1] X[6212] \le 0.012
entropy = 0.918
samples = 6
value = [2, 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X[7816] \le 0.061
entropy = 0.144
samples = 49
value = [1, 48] entropy = 0.0
samples = 1
value = [1, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X[6453] <= 0.029
entropy = 0.097
samples = 719
value = [710, 9]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entropy = 0.0

samples = 2

value = [0, 2]

entropy = 0.0

samples = 13

value = [13, 0]

entropy = 0.0

samples = 2

value = [0, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entropy = 0.0

samples = 5

value = [0, 5]
entropy = 0.0

samples = 3

value = [3, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entropy = 0.0

samples = 48

value = [0, 48] entropy = 0.0

samples = 1

value = [1, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entropy = 0.0

samples = 1

value = [0, 1]
entropy = 0.0

samples = 2

value = [2, 0]
entropy = 0.0

samples = 4

value = [0, 4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X[1605] \le 0.048
entropy = 0.151
samples = 415
value = [406, 9]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          entropy = 0.0
samples = 304
value = [304, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     X[7813] <= 0.054
entropy = 1.0
samples = 4
value = [2, 2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entropy = 0.0
samples = 17
value = [17, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               entropy = 0.0
samples = 6
value = [6, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[5010] \le 0.082
entropy = 0.918
samples = 3
value = [1, 2] entropy = 0.0
samples = 1
value = [1, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X[8787] \le 0.114
entropy = 0.138
samples = 414
value = [406, 8] entropy = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[379] <= 0.349
entropy = 0.124
samples = 413
value = [406, 7]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   entropy = 0.0

samples = 2

value = [0, 2]
entropy = 0.0

samples = 1

value = [1, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entropy = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[498] \le 0.072
entropy = 0.11
samples = 412
value = [406, 6]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entropy = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[652] \le 0.243
entropy = 0.095
samples = 411
value = [406, 5] entropy = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[4946] \le 0.065
entropy = 0.079
samples = 410
value = [406, 4]
entropy = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             X[9512] <= 0.002
entropy = 0.063
samples = 409
value = [406, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entropy = 0.0
samples = 1
value = [0, 1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[8945] \le 0.004
entropy = 0.117
samples = 190
value = [187, 3] entropy = 0.0
samples = 219
value = [219, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X[9267] <= 0.009
entropy = 0.154
samples = 135
value = [132, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 entropy = 0.0
samples = 55
value = [55, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[3109] <= 0.009
entropy = 0.193
samples = 101
value = [98, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entropy = 0.0
samples = 34
value = [34, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     X[2021] \le 0.024
entropy = 0.22
samples = 85
value = [82, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entropy = 0.0
samples = 16
value = [16, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X[2254] <= 0.044
entropy = 0.253
samples = 71
value = [68, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               entropy = 0.0
samples = 14
value = [14, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X[5849] <= 0.021
entropy = 0.283
samples = 61
value = [58, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entropy = 0.0
samples = 10
value = [10, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         X[6212] <= 0.018
entropy = 0.305
samples = 55
value = [52, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entropy = 0.0
samples = 6
value = [6, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 X[8729] <= 0.02
entropy = 0.327
samples = 50
value = [47, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       entropy = 0.0
samples = 5
value = [5, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[4515] \le 0.179
entropy = 0.348
samples = 46
value = [43, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              entropy = 0.0
samples = 4
value = [4, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                X[9008] <= 0.031
entropy = 0.365
samples = 43
value = [40, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        X[2812] \le 0.034
entropy = 0.384
samples = 40
value = [37, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[4037] <= 0.042
entropy = 0.406
samples = 37
value = [34, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entropy = 0.0

samples = 3

value = [3, 0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      X[9476] \le 0.063
entropy = 0.431
samples = 34
value = [31, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              X[979] <= 0.073
entropy = 0.449
samples = 32
value = [29, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X[8739] <= 0.103
entropy = 0.469
samples = 30
value = [27, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  X[7799] <= 0.262
entropy = 0.503
samples = 27
value = [24, 3]
                                                                                                                                                                                                                                                                                                                                                                                                                        X[5258] \le 0.228
entropy = 0.559
samples = 23
value = [20, 3] entropy = 0.0
samples = 1
value = [1, 0]
                                                                                                                                                                                                                                                  X[3004] <= 0.453
entropy = 0.696
samples = 16
value = [13, 3]
                                                                                                                                                                                               X[4382] <= 0.308
entropy = 0.75
samples = 14
value = [11, 3]
                                                                                                                                                                                                                                                    entropy = 0.0
samples = 1
value = [1, 0]
                                                                                                                                                                     X[6186] \le 0.276
entropy = 0.779
samples = 13
value = [10, 3] entropy = 0.0
samples = 1
value = [1, 0]
                                                                                                                                              X[8568] <= 0.342
entropy = 0.811
samples = 12
value = [9, 3]
                                                                                                                    X[4244] <= 0.306
entropy = 0.845
samples = 11
value = [8, 3]
                                                                                                                                                                           entropy = 0.0
samples = 1
value = [1, 0]
                                                                                             X[2636] \le 0.5
entropy = 0.881
samples = 10
value = [7, 3]
                                                                                                                                             entropy = 0.0
samples = 1
value = [1, 0]
                                                                    X[5387] <= 0.203
entropy = 0.918
samples = 9
value = [6, 3]
                                             X[8982] <= 0.5
entropy = 0.954
samples = 8
value = [5, 3]
                     X[3030] <= 0.5
entropy = 0.985
samples = 7
value = [4, 3]
entropy = 1.0

samples = 6

value = [3, 3]
entropy = 0.0

samples = 1

value = [1, 0]
```