

## OPTIMIZED

tree= 0, node= 1, feature=15, thr= 21.57, gain=0.621424  
tree= 0, node= 2, feature= 4, thr= 41.18, gain=0.587628  
tree= 0, node= 3, feature=13, thr= 58.82, gain=0.697235  
tree= 0, node= 4, feature= 9, thr= 15.69, gain=0.670083  
tree= 0, node= 5, feature=10, thr= 39.22, gain=0.629044  
tree= 0, node= 6, feature= 0, thr= 35.29, gain=0.712500  
tree= 0, node= 7, feature= 8, thr= 56.86, gain=0.814218  
tree= 0, node= 8, feature=14, thr= 60.78, gain=0.475710  
tree= 0, node= 9, feature= 5, thr= 64.71, gain=0.620325  
tree= 0, node= 10, feature=14, thr= 37.25, gain=0.224713  
tree= 0, node= 11, feature= 3, thr= 90.20, gain=0.686759  
tree= 0, node= 12, feature=14, thr= 37.25, gain=0.281171  
tree= 0, node= 13, feature=10, thr= 29.41, gain=0.584898  
tree= 0, node= 14, feature=14, thr= 96.08, gain=0.737506  
tree= 0, node= 15, feature= 7, thr= 24.33, gain=0.205385  
tree= 0, node= 16, feature= 0, thr= 15.29, gain=0.027989  
tree= 0, node= 17, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node= 18, feature=15, thr= 0.41, gain=0.188928  
tree= 0, node= 19, feature= 9, thr= 61.25, gain=0.534899  
tree= 0, node= 20, feature=12, thr= 30.06, gain=0.640257  
tree= 0, node= 21, feature= 8, thr= 34.59, gain=0.140904  
tree= 0, node= 22, feature= 6, thr= 72.55, gain=0.509615  
tree= 0, node= 23, feature= 7, thr= 72.10, gain=0.392279  
tree= 0, node= 24, feature= 1, thr= 77.86, gain=0.455976  
tree= 0, node= 25, feature=13, thr= 14.78, gain=0.131381  
tree= 0, node= 26, feature=15, thr= 31.02, gain=0.222560  
tree= 0, node= 27, feature= 9, thr= 19.61, gain=0.464511  
tree= 0, node= 28, feature=11, thr= 31.96, gain=0.157508  
tree= 0, node= 29, feature=11, thr= 40.16, gain=0.293796  
tree= 0, node= 30, feature= 2, thr= 54.90, gain=0.092930  
tree= 0, node= 31, feature= 9, thr= 58.82, gain=0.918296  
tree= 0, node= 32, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node= 33, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node= 36, feature= 7, thr= 67.25, gain=0.116556  
tree= 0, node= 37, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node= 38, feature=14, thr= 25.49, gain=0.773412  
tree= 0, node= 39, feature= 0, thr= 39.22, gain=0.206441  
tree= 0, node= 40, feature=14, thr= 12.33, gain=0.290289  
tree= 0, node= 41, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node= 42, feature= 9, thr= 1.43, gain=0.077936  
tree= 0, node= 43, feature= 6, thr= 64.41, gain=0.272362  
tree= 0, node= 44, feature=14, thr= 96.08, gain=0.341335  
tree= 0, node= 45, feature= 1, thr= 82.35, gain=0.324193  
tree= 0, node= 46, feature= 4, thr= 57.69, gain=0.225856  
tree= 0, node= 47, feature= 6, thr= 68.63, gain=0.665237

tree= 0, node= 48, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 49, feature=13, thr= 10.06, gain=0.553376  
tree= 0, node= 50, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node= 51, feature= 1, thr= 55.82, gain=0.050201  
tree= 0, node= 52, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node= 53, feature= 0, thr= 53.41, gain=0.129949  
tree= 0, node= 54, feature=15, thr= 68.37, gain=0.265884  
tree= 0, node= 55, feature=10, thr= 66.47, gain=0.773029  
tree= 0, node= 56, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 57, feature=12, thr= 21.57, gain=0.159034  
tree= 0, node= 58, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 59, feature= 5, thr= 75.76, gain=0.022964  
tree= 0, node= 60, feature= 6, thr= 96.08, gain=0.024998  
tree= 0, node= 61, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 62, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 63, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node= 72, feature= 5, thr= 13.61, gain=0.035258  
tree= 0, node= 73, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node= 76, feature= 6, thr= 50.51, gain=0.445567  
tree= 0, node= 77, feature=10, thr= 60.78, gain=0.870504  
tree= 0, node= 78, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node= 79, feature= 8, thr= 38.75, gain=0.054645  
tree= 0, node= 80, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node= 81, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node= 84, feature= 8, thr= 18.67, gain=0.368566  
tree= 0, node= 85, feature= 7, thr= 73.02, gain=0.050120  
tree= 0, node= 86, feature=12, thr= 55.47, gain=0.324909  
tree= 0, node= 87, feature= 8, thr= 48.86, gain=0.226467  
tree= 0, node= 88, feature= 7, thr= 66.47, gain=0.308576  
tree= 0, node= 89, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node= 90, feature= 5, thr= 15.69, gain=0.106446  
tree= 0, node= 91, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node= 92, feature= 2, thr= 58.43, gain=0.769487  
tree= 0, node= 93, feature= 2, thr= 93.25, gain=0.132334  
tree= 0, node= 94, feature= 2, thr= 50.49, gain=0.336553  
tree= 0, node= 95, feature= 0, thr= 54.90, gain=0.921380  
tree= 0, node= 98, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node= 99, feature= 6, thr= 49.02, gain=0.497943  
tree= 0, node=102, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=103, feature= 8, thr= 1.96, gain=0.036396  
tree= 0, node=106, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=107, feature=14, thr= 1.96, gain=0.057144  
tree= 0, node=108, feature= 4, thr= 62.75, gain=0.149994  
tree= 0, node=109, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=110, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=111, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=114, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=115, feature= 1, thr= 25.49, gain=0.028970

tree= 0, node=118, feature= 5, thr= 54.41, gain=0.007182  
tree= 0, node=119, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=121, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=144, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=145, feature=13, thr= 6.57, gain=0.024443  
tree= 0, node=152, feature=13, thr= 5.10, gain=0.498620  
tree= 0, node=153, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=154, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=155, feature= 7, thr= 54.73, gain=0.349184  
tree= 0, node=158, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=159, feature=12, thr= 50.59, gain=0.023714  
tree= 0, node=168, feature= 8, thr= 11.29, gain=0.052314  
tree= 0, node=169, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=170, feature= 9, thr= 5.45, gain=0.007149  
tree= 0, node=171, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=172, feature= 2, thr= 37.82, gain=0.084994  
tree= 0, node=173, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=174, feature= 0, thr= 73.33, gain=0.052965  
tree= 0, node=175, feature=11, thr= 5.76, gain=0.537392  
tree= 0, node=176, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=177, feature= 1, thr= 40.67, gain=0.321696  
tree= 0, node=180, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=181, feature= 0, thr= 60.78, gain=0.098830  
tree= 0, node=184, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=185, feature= 9, thr= 12.90, gain=0.714015  
tree= 0, node=186, feature= 9, thr= 18.55, gain=0.126116  
tree= 0, node=187, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=188, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=189, feature=13, thr= 18.24, gain=0.272659  
tree= 0, node=190, feature=11, thr= 39.61, gain=0.721140  
tree= 0, node=191, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=198, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=199, feature=15, thr= 59.12, gain=0.569961  
tree= 0, node=206, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=207, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=214, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=215, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=216, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=217, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=230, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=231, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=236, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=237, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=290, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=291, feature= 7, thr= 18.08, gain=0.007701  
tree= 0, node=304, feature= 2, thr= 5.29, gain=0.212659  
tree= 0, node=305, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=310, feature= 3, thr= -1.00, gain=-1.000000

tree= 0, node=311, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=318, feature=13, thr= 29.12, gain=0.116048  
tree= 0, node=319, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=336, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=337, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=340, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=341, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=344, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=345, feature= 0, thr= 40.00, gain=0.037966  
tree= 0, node=348, feature= 0, thr= 7.06, gain=0.017756  
tree= 0, node=349, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=350, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=351, feature=11, thr= 30.47, gain=0.268740  
tree= 0, node=354, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=355, feature=15, thr= 6.27, gain=0.019428  
tree= 0, node=362, feature= 8, thr= 23.10, gain=0.021367  
tree= 0, node=363, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=370, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=371, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=372, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=373, feature=14, thr= 52.94, gain=0.059868  
tree= 0, node=378, feature=15, thr= 14.33, gain=0.108283  
tree= 0, node=379, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=380, feature= 2, thr= 60.75, gain=0.385816  
tree= 0, node=381, feature= 2, thr= 45.18, gain=0.177389  
tree= 0, node=398, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=399, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=582, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=583, feature= 9, thr= 82.67, gain=0.006832  
tree= 0, node=608, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=609, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=636, feature= 6, thr= 19.41, gain=0.091175  
tree= 0, node=637, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=690, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=691, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=696, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=697, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=702, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=703, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=710, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=711, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=724, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=725, feature=15, thr= 9.12, gain=0.021405  
tree= 0, node=746, feature= 6, thr= 13.90, gain=0.017758  
tree= 0, node=747, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=756, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=757, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=760, feature=14, thr= 49.02, gain=0.354715

tree= 0, node=761, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=762, feature=12, thr= 27.84, gain=0.049903  
tree= 0, node=763, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=1166, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=1167, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=1272, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=1273, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1450, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=1451, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=1492, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1493, feature=14, thr= 22.43, gain=0.015375  
tree= 0, node=1520, feature=12, thr= 41.71, gain=0.102042  
tree= 0, node=1521, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1524, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=1525, feature= 2, thr= 41.47, gain=0.067991  
tree= 0, node=2986, feature= 2, thr= 86.53, gain=0.007728  
tree= 0, node=2987, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=3040, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=3041, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=3050, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=3051, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=5972, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=5973, feature= 2, thr= -1.00, gain=-1.000000  
classification accuracy=0.8814

## Randomized

tree= 0, node= 1, feature= 3, thr= 92.16, gain=0.438164  
tree= 0, node= 2, feature=13, thr= 58.82, gain=0.793301  
tree= 0, node= 3, feature=14, thr= 41.18, gain=0.673764  
tree= 0, node= 4, feature=15, thr= 1.76, gain=0.562572  
tree= 0, node= 5, feature= 5, thr= 28.53, gain=0.188010  
tree= 0, node= 6, feature= 8, thr= 50.98, gain=0.374339  
tree= 0, node= 7, feature=15, thr= 21.57, gain=0.802815  
tree= 0, node= 8, feature= 1, thr= 98.04, gain=0.738925  
tree= 0, node= 9, feature=11, thr= 1.96, gain=0.169036  
tree= 0, node= 10, feature= 2, thr= 25.49, gain=0.538281  
tree= 0, node= 11, feature=12, thr= 56.86, gain=0.819211  
tree= 0, node= 12, feature=14, thr= 1.61, gain=0.207696  
tree= 0, node= 13, feature= 2, thr= 33.33, gain=0.092794  
tree= 0, node= 14, feature=13, thr= 21.41, gain=0.468324  
tree= 0, node= 15, feature= 4, thr= 45.10, gain=0.721512  
tree= 0, node= 16, feature= 4, thr= 27.45, gain=0.197267  
tree= 0, node= 17, feature= 9, thr= 11.76, gain=0.218416  
tree= 0, node= 18, feature= 0, thr= 88.24, gain=0.706369  
tree= 0, node= 19, feature= 2, thr= 72.55, gain=0.085061  
tree= 0, node= 20, feature= 1, thr= 98.76, gain=0.018748  
tree= 0, node= 21, feature= 6, thr= 70.59, gain=0.334270  
tree= 0, node= 22, feature=13, thr= 82.31, gain=0.327929  
tree= 0, node= 23, feature= 0, thr= 1.96, gain=0.051940  
tree= 0, node= 24, feature= 1, thr= 83.00, gain=0.316022  
tree= 0, node= 25, feature= 6, thr= 27.45, gain=0.754521  
tree= 0, node= 26, feature=14, thr= 13.67, gain=0.468499  
tree= 0, node= 27, feature= 2, thr= 89.65, gain=0.076002  
tree= 0, node= 28, feature= 5, thr= 80.67, gain=0.051025  
tree= 0, node= 29, feature= 3, thr= 99.04, gain=0.305259  
tree= 0, node= 30, feature=13, thr= 41.04, gain=0.098611  
tree= 0, node= 31, feature= 8, thr= 1.96, gain=0.163738  
tree= 0, node= 32, feature=12, thr= 61.51, gain=0.076266  
tree= 0, node= 33, feature= 7, thr= 84.90, gain=0.048301  
tree= 0, node= 34, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node= 35, feature=15, thr= 0.02, gain=0.009644  
tree= 0, node= 36, feature= 3, thr= 77.00, gain=0.281600  
tree= 0, node= 37, feature= 5, thr= 61.02, gain=0.010087  
tree= 0, node= 38, feature=10, thr= 33.33, gain=0.238173  
tree= 0, node= 39, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node= 40, feature=11, thr= 98.75, gain=0.035955  
tree= 0, node= 41, feature= 7, thr= 15.04, gain=0.038761  
tree= 0, node= 42, feature=15, thr= 90.88, gain=0.323384  
tree= 0, node= 43, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node= 44, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node= 45, feature= 9, thr= 22.78, gain=0.037376  
tree= 0, node= 46, feature= 7, thr= -1.00, gain=-1.000000

tree= 0, node= 47, feature= 0, thr= 75.02, gain=0.044292  
tree= 0, node= 48, feature= 3, thr= 99.04, gain=0.282667  
tree= 0, node= 49, feature=11, thr= 22.55, gain=0.715580  
tree= 0, node= 50, feature= 2, thr= 89.84, gain=0.138327  
tree= 0, node= 51, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 52, feature= 0, thr= 39.69, gain=0.770448  
tree= 0, node= 53, feature=12, thr= 58.59, gain=0.665558  
tree= 0, node= 54, feature=14, thr= 18.49, gain=0.090706  
tree= 0, node= 55, feature= 8, thr= 67.33, gain=0.287992  
tree= 0, node= 56, feature=11, thr= 34.59, gain=0.023555  
tree= 0, node= 57, feature=10, thr= 35.29, gain=0.153228  
tree= 0, node= 58, feature=13, thr= 25.53, gain=0.270223  
tree= 0, node= 59, feature= 6, thr= 31.37, gain=0.341389  
tree= 0, node= 60, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 61, feature= 4, thr= 23.29, gain=0.042706  
tree= 0, node= 62, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node= 63, feature= 2, thr= 32.53, gain=0.004115  
tree= 0, node= 64, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node= 65, feature= 7, thr= 69.80, gain=0.626751  
tree= 0, node= 66, feature= 0, thr= 37.25, gain=0.412878  
tree= 0, node= 67, feature=11, thr= 54.76, gain=0.139925  
tree= 0, node= 70, feature=13, thr= 18.00, gain=0.289377  
tree= 0, node= 71, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node= 72, feature= 4, thr= 75.78, gain=0.520719  
tree= 0, node= 73, feature=11, thr= 0.02, gain=0.084020  
tree= 0, node= 74, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node= 75, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node= 76, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 77, feature=13, thr= 1.14, gain=0.699967  
tree= 0, node= 80, feature= 5, thr= 15.37, gain=0.089652  
tree= 0, node= 81, feature= 4, thr= 74.51, gain=0.069530  
tree= 0, node= 82, feature=15, thr= 93.65, gain=0.044325  
tree= 0, node= 83, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node= 84, feature= 2, thr= 42.12, gain=0.115649  
tree= 0, node= 85, feature=14, thr= 64.71, gain=0.981714  
tree= 0, node= 90, feature= 1, thr= 99.06, gain=0.010091  
tree= 0, node= 91, feature= 7, thr= 1.12, gain=0.079490  
tree= 0, node= 94, feature= 4, thr= 5.88, gain=0.876816  
tree= 0, node= 95, feature= 6, thr= 19.61, gain=0.659086  
tree= 0, node= 96, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node= 97, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 98, feature= 5, thr= 80.04, gain=0.445962  
tree= 0, node= 99, feature= 6, thr= 64.71, gain=0.153581  
tree= 0, node=100, feature= 3, thr= 96.02, gain=0.027936  
tree= 0, node=101, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=104, feature= 3, thr= 94.10, gain=0.124295  
tree= 0, node=105, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=106, feature= 6, thr= -1.00, gain=-1.000000

tree= 0, node=107, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=108, feature= 6, thr= 37.25, gain=0.253413  
tree= 0, node=109, feature= 5, thr= 75.29, gain=0.633665  
tree= 0, node=110, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=111, feature=13, thr= 13.25, gain=0.288142  
tree= 0, node=112, feature=15, thr= 2.06, gain=0.046003  
tree= 0, node=113, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=114, feature=11, thr= 1.65, gain=0.100616  
tree= 0, node=115, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=116, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=117, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=118, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=119, feature= 0, thr= 64.71, gain=0.886145  
tree= 0, node=122, feature=12, thr= 88.82, gain=0.440083  
tree= 0, node=123, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=126, feature= 8, thr= 6.86, gain=0.116115  
tree= 0, node=127, feature=11, thr= 15.06, gain=0.012745  
tree= 0, node=130, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=131, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=132, feature= 9, thr= 64.61, gain=0.185189  
tree= 0, node=133, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=134, feature= 1, thr= 75.10, gain=0.236706  
tree= 0, node=135, feature= 3, thr= 69.76, gain=0.273779  
tree= 0, node=140, feature=12, thr= 31.37, gain=0.644850  
tree= 0, node=141, feature=11, thr= 49.53, gain=0.015861  
tree= 0, node=144, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=145, feature= 1, thr= 50.08, gain=0.169747  
tree= 0, node=146, feature=13, thr= 9.22, gain=0.993234  
tree= 0, node=147, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=154, feature=10, thr= 69.80, gain=0.230666  
tree= 0, node=155, feature=10, thr= 94.41, gain=0.015416  
tree= 0, node=160, feature= 6, thr= 19.61, gain=0.261914  
tree= 0, node=161, feature= 4, thr= 23.06, gain=0.830435  
tree= 0, node=163, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=165, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=168, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=169, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=170, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=171, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=180, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=181, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=182, feature=10, thr= 39.22, gain=0.325082  
tree= 0, node=183, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=188, feature=14, thr= 45.00, gain=0.013794  
tree= 0, node=189, feature= 8, thr= 35.29, gain=0.085684  
tree= 0, node=190, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=191, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=196, feature= 0, thr= 43.14, gain=0.552266



tree= 0, node=197, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=198, feature= 5, thr= 89.29, gain=0.230141  
tree= 0, node=199, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=200, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=201, feature= 9, thr= 29.57, gain=0.181166  
tree= 0, node=208, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=209, feature= 8, thr= 81.47, gain=0.066562  
tree= 0, node=216, feature= 0, thr= 29.41, gain=0.472863  
tree= 0, node=217, feature= 4, thr= 58.82, gain=0.575344  
tree= 0, node=218, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=219, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=222, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=223, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=224, feature=10, thr= 42.16, gain=0.068723  
tree= 0, node=225, feature= 5, thr= 65.18, gain=0.040222  
tree= 0, node=228, feature=15, thr= 9.31, gain=0.042780  
tree= 0, node=229, feature= 7, thr= 39.69, gain=0.045929  
tree= 0, node=238, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=239, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=244, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=245, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=252, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=253, feature= 4, thr= 57.65, gain=0.079260  
tree= 0, node=254, feature=11, thr= 0.29, gain=0.003631  
tree= 0, node=255, feature= 2, thr= 60.59, gain=0.018848  
tree= 0, node=264, feature= 9, thr= 55.04, gain=0.105940  
tree= 0, node=265, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=268, feature=12, thr= 77.18, gain=0.021070  
tree= 0, node=269, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=270, feature=13, thr= 20.51, gain=0.251645  
tree= 0, node=271, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=280, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=281, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=282, feature= 3, thr= 82.12, gain=0.096010  
tree= 0, node=283, feature= 1, thr= 99.02, gain=0.014711  
tree= 0, node=290, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=291, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=292, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=293, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=308, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=309, feature= 2, thr= 36.71, gain=0.279851  
tree= 0, node=310, feature= 8, thr= 72.55, gain=0.141618  
tree= 0, node=311, feature= 4, thr= 43.14, gain=0.061742  
tree= 0, node=320, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=322, feature= 4, thr= 16.39, gain=0.043505  
tree= 0, node=323, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=364, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=365, feature= 0, thr= -1.00, gain=-1.000000

tree= 0, node=377, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=378, feature=14, thr= 78.24, gain=0.061735  
tree= 0, node=379, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=392, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=393, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=396, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=397, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=402, feature= 9, thr= 8.53, gain=0.026117  
tree= 0, node=403, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=418, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=419, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=432, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=433, feature=10, thr= 91.88, gain=0.184338  
tree= 0, node=434, feature=12, thr= 46.88, gain=0.136384  
tree= 0, node=435, feature= 4, thr= 70.25, gain=0.100210  
tree= 0, node=448, feature= 7, thr= 36.88, gain=0.011006  
tree= 0, node=449, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=450, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=451, feature=15, thr= 13.04, gain=0.074659  
tree= 0, node=456, feature=15, thr= 7.06, gain=0.010977  
tree= 0, node=457, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=458, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=459, feature= 4, thr= 1.96, gain=0.033381  
tree= 0, node=506, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=507, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=508, feature= 7, thr= 49.53, gain=0.010307  
tree= 0, node=509, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=510, feature= 4, thr= 51.16, gain=0.026015  
tree= 0, node=511, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=528, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=529, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=536, feature= 3, thr= 86.06, gain=0.032230  
tree= 0, node=537, feature=15, thr= 0.00, gain=0.000000  
tree= 0, node=540, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=541, feature=10, thr= 92.00, gain=0.272061  
tree= 0, node=564, feature= 0, thr= 50.98, gain=0.021254  
tree= 0, node=565, feature= 7, thr= 67.59, gain=0.637387  
tree= 0, node=566, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=567, feature= 2, thr= 18.53, gain=0.007666  
tree= 0, node=618, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=619, feature= 6, thr= 54.02, gain=0.410545  
tree= 0, node=620, feature=15, thr= 55.71, gain=0.172037  
tree= 0, node=621, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=622, feature=13, thr= 44.82, gain=0.037981  
tree= 0, node=623, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=645, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=756, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=757, feature= 7, thr= -1.00, gain=-1.000000

tree= 0, node=804, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=805, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=866, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=867, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=868, feature=15, thr= 15.33, gain=0.117996  
tree= 0, node=869, feature= 7, thr= 53.61, gain=0.220663  
tree= 0, node=870, feature= 8, thr= 59.45, gain=0.235072  
tree= 0, node=871, feature= 4, thr= 88.06, gain=0.023707  
tree= 0, node=896, feature= 4, thr= 48.67, gain=0.012844  
tree= 0, node=897, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=902, feature= 7, thr= 35.18, gain=0.142802  
tree= 0, node=903, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=912, feature=13, thr= 8.20, gain=0.089751  
tree= 0, node=913, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=918, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=919, feature= 8, thr= 71.53, gain=0.054551  
tree= 0, node=1016, feature= 2, thr= 54.02, gain=0.027645  
tree= 0, node=1017, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=1020, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=1021, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=1072, feature= 8, thr= 97.33, gain=0.027023  
tree= 0, node=1073, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=1074, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=1075, feature=15, thr= 0.00, gain=0.000000  
tree= 0, node=1082, feature= 1, thr= 61.14, gain=0.477469  
tree= 0, node=1083, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1128, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=1129, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=1130, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=1131, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1134, feature= 6, thr= 98.24, gain=0.010790  
tree= 0, node=1135, feature= 8, thr= 21.57, gain=0.030611  
tree= 0, node=1238, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=1239, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1240, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=1241, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=1244, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=1245, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=1736, feature=11, thr= 22.12, gain=0.361147  
tree= 0, node=1737, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=1738, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=1739, feature= 1, thr= 89.02, gain=0.021667  
tree= 0, node=1740, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=1741, feature= 0, thr= 62.75, gain=0.843162  
tree= 0, node=1742, feature= 9, thr= 1.24, gain=0.354666  
tree= 0, node=1743, feature= 2, thr= 74.98, gain=0.057162  
tree= 0, node=1792, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1793, feature= 9, thr= 5.29, gain=0.012483

tree= 0, node=1804, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1805, feature=15, thr= 6.14, gain=0.049410  
tree= 0, node=1824, feature= 2, thr= 54.43, gain=0.334510  
tree= 0, node=1825, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1838, feature=13, thr= 3.29, gain=0.008017  
tree= 0, node=1839, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=2032, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=2033, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=2144, feature=14, thr= 1.96, gain=0.020207  
tree= 0, node=2145, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=2150, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=2151, feature= 4, thr= 65.35, gain=0.059177  
tree= 0, node=2164, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=2165, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=2268, feature=10, thr= 97.96, gain=0.026060  
tree= 0, node=2269, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=2270, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=2271, feature=15, thr= 0.00, gain=0.000000  
tree= 0, node=3472, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=3473, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=3478, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=3479, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=3482, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=3483, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=3484, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=3485, feature= 2, thr= 86.84, gain=0.029441  
tree= 0, node=3486, feature=10, thr= 89.94, gain=0.024614  
tree= 0, node=3487, feature=15, thr= 25.49, gain=0.193643  
tree= 0, node=3586, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=3587, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=3610, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=3611, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=3648, feature=13, thr= 4.08, gain=0.021529  
tree= 0, node=3649, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=3676, feature= 8, thr= 45.94, gain=0.030355  
tree= 0, node=3677, feature= 5, thr= 88.08, gain=0.041720  
tree= 0, node=4288, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=4289, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=4302, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=4303, feature=12, thr= 90.08, gain=0.039577  
tree= 0, node=4536, feature=15, thr= 0.00, gain=0.000000  
tree= 0, node=4537, feature=12, thr= 70.57, gain=0.148949  
tree= 0, node=4542, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=4543, feature=12, thr= 53.20, gain=0.021837  
tree= 0, node=6970, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=6971, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=6972, feature= 9, thr= 20.08, gain=0.236925  
tree= 0, node=6973, feature= 8, thr= 71.18, gain=0.116204

tree= 0, node=6974, feature=10, thr= 76.35, gain=0.215384  
tree= 0, node=6975, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=7296, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=7297, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=7352, feature= 4, thr= 51.06, gain=0.048531  
tree= 0, node=7353, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=7354, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=7355, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=8606, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=8607, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=9072, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=9073, feature= 4, thr= 11.25, gain=0.005722  
tree= 0, node=9074, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=9075, feature= 1, thr=100.00, gain=0.000000  
tree= 0, node=9086, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=9087, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=13944, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=13945, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=13946, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=13947, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=13948, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=13949, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=14704, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=14705, feature= 5, thr= 97.02, gain=0.036254  
tree= 0, node=18146, feature= 8, thr= 94.04, gain=0.000425  
tree= 0, node=18147, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=18150, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=18151, feature=14, thr= 58.57, gain=0.126505  
tree= 0, node=29410, feature= 2, thr= 54.59, gain=0.033224  
tree= 0, node=29411, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=36292, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=36293, feature=14, thr= 58.82, gain=0.021898  
tree= 0, node=36302, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=36303, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=58820, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=58821, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=72586, feature= 2, thr= 4.24, gain=0.011557  
tree= 0, node=72587, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=145172, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=145173, feature= 3, thr= -1.00, gain=-1.000000  
classification accuracy=0.8047

### Random Forest 3

tree= 0, node= 1, feature=11, thr= 35.29, gain=0.466267  
tree= 0, node= 2, feature=14, thr= 45.10, gain=0.744144  
tree= 0, node= 3, feature= 6, thr= 74.51, gain=0.272258  
tree= 0, node= 4, feature= 9, thr= 24.41, gain=0.841756  
tree= 0, node= 5, feature=10, thr= 68.63, gain=0.218689  
tree= 0, node= 6, feature= 8, thr= 50.98, gain=0.652556  
tree= 0, node= 7, feature=10, thr= 27.45, gain=0.197986  
tree= 0, node= 8, feature= 7, thr= 36.00, gain=0.156031  
tree= 0, node= 9, feature= 8, thr= 62.75, gain=0.245599  
tree= 0, node= 10, feature= 6, thr= 49.02, gain=0.131784  
tree= 0, node= 11, feature=11, thr= 10.29, gain=0.557158  
tree= 0, node= 12, feature=15, thr= 66.67, gain=0.537112  
tree= 0, node= 13, feature=12, thr= 67.33, gain=0.067246  
tree= 0, node= 14, feature= 2, thr= 22.86, gain=0.253506  
tree= 0, node= 15, feature= 7, thr= 72.55, gain=0.823486  
tree= 0, node= 16, feature=13, thr= 57.16, gain=0.190641  
tree= 0, node= 17, feature= 3, thr= 99.24, gain=0.129423  
tree= 0, node= 18, feature= 7, thr= 80.67, gain=0.367185  
tree= 0, node= 19, feature= 3, thr= 97.29, gain=0.210521  
tree= 0, node= 20, feature=12, thr= 47.06, gain=0.451669  
tree= 0, node= 21, feature= 7, thr= 42.25, gain=0.168533  
tree= 0, node= 22, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node= 23, feature= 2, thr= 45.02, gain=0.296520  
tree= 0, node= 24, feature=15, thr= 16.57, gain=0.650022  
tree= 0, node= 25, feature= 6, thr= 1.45, gain=0.063664  
tree= 0, node= 26, feature= 5, thr= 31.37, gain=0.801499  
tree= 0, node= 27, feature=15, thr= 23.53, gain=0.826946  
tree= 0, node= 28, feature=13, thr= 80.39, gain=0.702495  
tree= 0, node= 29, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node= 30, feature= 4, thr= 29.41, gain=0.353384  
tree= 0, node= 31, feature= 5, thr= 89.94, gain=0.192086  
tree= 0, node= 32, feature= 5, thr= 62.51, gain=0.071755  
tree= 0, node= 33, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 34, feature=15, thr= 32.47, gain=0.416102  
tree= 0, node= 35, feature= 1, thr= 82.49, gain=0.736692  
tree= 0, node= 36, feature=10, thr= 52.94, gain=0.593687  
tree= 0, node= 37, feature=15, thr= 12.94, gain=0.695865  
tree= 0, node= 38, feature=13, thr= 5.18, gain=0.094438  
tree= 0, node= 39, feature=14, thr= 9.71, gain=0.040076  
tree= 0, node= 40, feature=14, thr= 98.94, gain=0.185699  
tree= 0, node= 41, feature=10, thr= 2.51, gain=0.070071  
tree= 0, node= 42, feature=13, thr= 24.71, gain=0.664319  
tree= 0, node= 43, feature= 8, thr= 48.04, gain=0.203762  
tree= 0, node= 46, feature=14, thr= 85.18, gain=0.284788  
tree= 0, node= 47, feature= 0, thr= -1.00, gain=-1.000000

tree= 0, node= 48, feature=13, thr= 18.63, gain=0.662418  
tree= 0, node= 49, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node= 50, feature=11, thr= 82.00, gain=0.172800  
tree= 0, node= 51, feature= 2, thr= 58.82, gain=0.125404  
tree= 0, node= 52, feature= 5, thr= 0.59, gain=0.061605  
tree= 0, node= 53, feature= 0, thr= 82.35, gain=0.203084  
tree= 0, node= 54, feature= 2, thr= 54.90, gain=0.266024  
tree= 0, node= 55, feature= 6, thr= 7.29, gain=0.032818  
tree= 0, node= 56, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 57, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node= 60, feature= 4, thr= 11.37, gain=0.209158  
tree= 0, node= 61, feature= 9, thr= 29.41, gain=0.808415  
tree= 0, node= 62, feature=12, thr= 39.33, gain=0.054344  
tree= 0, node= 63, feature= 7, thr= 83.06, gain=0.114734  
tree= 0, node= 64, feature= 6, thr= 44.92, gain=0.043837  
tree= 0, node= 65, feature= 2, thr= 75.00, gain=0.154235  
tree= 0, node= 68, feature=15, thr= 9.41, gain=0.420641  
tree= 0, node= 69, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node= 70, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 71, feature= 3, thr=100.00, gain=0.000000  
tree= 0, node= 72, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node= 73, feature= 8, thr= 43.67, gain=0.062328  
tree= 0, node= 74, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node= 75, feature=11, thr= 29.51, gain=0.062097  
tree= 0, node= 76, feature= 2, thr= 56.86, gain=0.151651  
tree= 0, node= 77, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node= 78, feature= 2, thr= 96.08, gain=0.040710  
tree= 0, node= 79, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node= 80, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node= 81, feature=12, thr= 7.37, gain=0.087170  
tree= 0, node= 82, feature= 1, thr= 71.14, gain=0.113489  
tree= 0, node= 83, feature= 0, thr= 54.90, gain=0.243543  
tree= 0, node= 84, feature=10, thr= 3.41, gain=0.086314  
tree= 0, node= 85, feature= 3, thr= 96.67, gain=0.037586  
tree= 0, node= 86, feature=13, thr= 23.73, gain=0.624505  
tree= 0, node= 87, feature=15, thr= 11.76, gain=0.957811  
tree= 0, node= 92, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node= 93, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node= 96, feature= 6, thr= 20.04, gain=0.134768  
tree= 0, node= 97, feature=13, thr= 24.47, gain=0.245090  
tree= 0, node=100, feature= 3, thr= 54.06, gain=0.159886  
tree= 0, node=101, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=102, feature= 3, thr= 76.71, gain=0.180206  
tree= 0, node=103, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=104, feature=12, thr= 47.88, gain=0.102455  
tree= 0, node=105, feature= 6, thr= 62.75, gain=0.016086  
tree= 0, node=106, feature= 6, thr= 42.08, gain=0.159289  
tree= 0, node=107, feature= 5, thr= 62.88, gain=0.648403

tree= 0, node=108, feature=13, thr= 16.71, gain=0.147020  
tree= 0, node=109, feature=12, thr= 78.04, gain=0.043248  
tree= 0, node=110, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=111, feature= 1, thr= 77.06, gain=0.061836  
tree= 0, node=120, feature=10, thr= 47.06, gain=0.113274  
tree= 0, node=121, feature= 5, thr= 13.59, gain=0.846060  
tree= 0, node=122, feature= 0, thr= 7.84, gain=0.140250  
tree= 0, node=123, feature=14, thr= 35.29, gain=0.524846  
tree= 0, node=124, feature= 2, thr= 47.76, gain=0.478411  
tree= 0, node=125, feature= 1, thr= 72.55, gain=0.620130  
tree= 0, node=126, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=127, feature= 7, thr= 99.06, gain=0.040005  
tree= 0, node=128, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=129, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=130, feature=10, thr= 88.82, gain=0.112088  
tree= 0, node=131, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=136, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=137, feature=15, thr= 27.25, gain=0.038188  
tree= 0, node=142, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=143, feature= 6, thr= 45.10, gain=0.933685  
tree= 0, node=146, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=147, feature=12, thr= 52.71, gain=0.089297  
tree= 0, node=150, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=151, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=152, feature=11, thr= 9.61, gain=0.088852  
tree= 0, node=153, feature= 0, thr= 62.75, gain=0.404194  
tree= 0, node=156, feature= 1, thr= 92.55, gain=0.114326  
tree= 0, node=157, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=162, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=163, feature=11, thr= 10.35, gain=0.397711  
tree= 0, node=164, feature= 6, thr= 30.18, gain=0.054737  
tree= 0, node=165, feature= 6, thr= 25.94, gain=0.123959  
tree= 0, node=166, feature= 8, thr= 25.49, gain=0.158613  
tree= 0, node=167, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=168, feature= 1, thr= 91.12, gain=0.104454  
tree= 0, node=169, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=170, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=171, feature= 1, thr= 78.35, gain=0.196777  
tree= 0, node=172, feature=10, thr= 6.04, gain=0.051837  
tree= 0, node=173, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=174, feature= 6, thr= 98.04, gain=0.157864  
tree= 0, node=175, feature=11, thr= 22.18, gain=0.049614  
tree= 0, node=192, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=193, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=194, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=195, feature= 7, thr= 57.18, gain=0.509028  
tree= 0, node=200, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=201, feature= 7, thr= -1.00, gain=-1.000000



tree= 0, node=204, feature= 4, thr= 95.29, gain=0.081329  
tree= 0, node=205, feature= 0, thr= 70.59, gain=0.192128  
tree= 0, node=208, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=209, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=210, feature= 3, thr= 49.41, gain=0.073138  
tree= 0, node=212, feature= 0, thr= 48.47, gain=0.101693  
tree= 0, node=213, feature= 9, thr= 63.92, gain=0.230590  
tree= 0, node=214, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=215, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=216, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=217, feature=12, thr= 93.10, gain=0.014851  
tree= 0, node=218, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=219, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=222, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=223, feature= 9, thr= 30.18, gain=0.036135  
tree= 0, node=240, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=241, feature= 8, thr= 84.31, gain=0.031342  
tree= 0, node=242, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=243, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=244, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=245, feature= 8, thr= 34.59, gain=0.053263  
tree= 0, node=246, feature= 7, thr= 50.78, gain=0.195028  
tree= 0, node=247, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=248, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=249, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=250, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=251, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=254, feature=11, thr= 49.18, gain=0.131309  
tree= 0, node=255, feature= 2, thr= 23.84, gain=0.296870  
tree= 0, node=260, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=261, feature= 0, thr= 35.29, gain=0.657845  
tree= 0, node=274, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=275, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=286, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=287, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=294, feature=11, thr= 19.22, gain=0.127702  
tree= 0, node=295, feature= 2, thr= 72.47, gain=0.437796  
tree= 0, node=304, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=305, feature= 0, thr= 35.29, gain=0.419357  
tree= 0, node=306, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=307, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=312, feature= 4, thr= 56.86, gain=0.514088  
tree= 0, node=313, feature= 0, thr= 60.78, gain=0.696324  
tree= 0, node=326, feature= 6, thr= 42.55, gain=0.030691  
tree= 0, node=327, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=328, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=329, feature= 7, thr= 53.20, gain=0.097608  
tree= 0, node=330, feature= 0, thr= -1.00, gain=-1.000000

tree= 0, node=331, feature= 4, thr= 50.59, gain=0.282707  
tree= 0, node=332, feature= 9, thr= 4.31, gain=0.049505  
tree= 0, node=333, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=336, feature=15, thr= 2.24, gain=0.207126  
tree= 0, node=337, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=342, feature= 1, thr= 70.35, gain=0.122316  
tree= 0, node=343, feature= 0, thr= 54.90, gain=0.611862  
tree= 0, node=344, feature= 9, thr= 30.75, gain=0.062016  
tree= 0, node=345, feature= 1, thr= 62.12, gain=0.225175  
tree= 0, node=348, feature= 0, thr= 6.27, gain=0.027359  
tree= 0, node=349, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=350, feature= 5, thr= 59.80, gain=0.031717  
tree= 0, node=351, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=390, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=391, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=408, feature= 0, thr= 52.35, gain=0.076378  
tree= 0, node=409, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=410, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=411, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=420, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=421, feature= 9, thr= 17.55, gain=0.018276  
tree= 0, node=424, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=425, feature= 0, thr= 79.18, gain=0.118157  
tree= 0, node=426, feature= 3, thr= 83.14, gain=0.023032  
tree= 0, node=427, feature= 9, thr= 83.33, gain=0.140770  
tree= 0, node=434, feature= 8, thr= 75.02, gain=0.025675  
tree= 0, node=435, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=447, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=482, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=483, feature= 7, thr= 63.37, gain=0.205593  
tree= 0, node=490, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=491, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=493, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=508, feature=11, thr= 40.08, gain=0.041797  
tree= 0, node=509, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=510, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=511, feature= 6, thr= 88.24, gain=0.315979  
tree= 0, node=522, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=523, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=588, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=589, feature= 9, thr= 51.67, gain=0.100896  
tree= 0, node=590, feature=10, thr= 92.35, gain=0.009999  
tree= 0, node=591, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=610, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=611, feature=10, thr= 91.49, gain=0.040559  
tree= 0, node=624, feature=10, thr= 98.43, gain=0.076846  
tree= 0, node=625, feature= 7, thr= 76.39, gain=0.104863  
tree= 0, node=626, feature=10, thr= 99.49, gain=0.225979

tree= 0, node=627, feature= 3, thr= 99.02, gain=0.031638  
tree= 0, node=652, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=653, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=658, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=659, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=662, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=663, feature= 3, thr= 98.12, gain=0.159283  
tree= 0, node=664, feature= 3, thr= 98.04, gain=0.002447  
tree= 0, node=665, feature= 4, thr= 36.18, gain=0.045843  
tree= 0, node=672, feature= 9, thr= 5.10, gain=0.060005  
tree= 0, node=673, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=684, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=685, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=686, feature= 5, thr= 64.16, gain=0.031301  
tree= 0, node=687, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=688, feature= 3, thr= 98.39, gain=0.100578  
tree= 0, node=689, feature= 8, thr= 38.59, gain=0.044620  
tree= 0, node=690, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=691, feature= 7, thr= 61.35, gain=0.077316  
tree= 0, node=696, feature= 4, thr= 57.20, gain=0.059226  
tree= 0, node=697, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=700, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=701, feature= 7, thr= 61.67, gain=0.004696  
tree= 0, node=816, feature= 8, thr= 26.16, gain=0.013914  
tree= 0, node=817, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=842, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=843, feature= 3, thr= 65.33, gain=0.015110  
tree= 0, node=850, feature= 3, thr= 70.18, gain=0.107612  
tree= 0, node=851, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=852, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=853, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=854, feature= 8, thr= 92.06, gain=0.500831  
tree= 0, node=855, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=868, feature= 0, thr= 86.27, gain=0.188422  
tree= 0, node=869, feature=15, thr= 0.18, gain=0.058101  
tree= 0, node=966, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=967, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1016, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=1017, feature= 8, thr= 98.27, gain=0.145047  
tree= 0, node=1022, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1023, feature= 7, thr=100.00, gain=0.000000  
tree= 0, node=1178, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=1179, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=1180, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=1181, feature=14, thr= 5.63, gain=0.068422  
tree= 0, node=1222, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1223, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1248, feature= 3, thr=100.00, gain=0.000000

tree= 0, node=1249, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1250, feature=10, thr= 99.22, gain=0.002653  
tree= 0, node=1251, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1252, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=1253, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=1254, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=1255, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=1326, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=1327, feature=11, thr= 26.16, gain=0.098959  
tree= 0, node=1328, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1329, feature= 6, thr= 42.04, gain=0.155468  
tree= 0, node=1330, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1331, feature= 7, thr= 40.78, gain=0.006164  
tree= 0, node=1344, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1345, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1372, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=1373, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=1376, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=1377, feature= 4, thr= 76.55, gain=0.063065  
tree= 0, node=1378, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1379, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1382, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1383, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1392, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=1393, feature= 8, thr= 62.33, gain=0.286952  
tree= 0, node=1402, feature=10, thr= 1.31, gain=0.066430  
tree= 0, node=1403, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=1632, feature=15, thr= 93.29, gain=0.025397  
tree= 0, node=1633, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=1686, feature= 2, thr= 25.53, gain=0.125186  
tree= 0, node=1700, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=1701, feature= 3, thr= 93.18, gain=0.123456  
tree= 0, node=1708, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1709, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=1736, feature= 4, thr= 19.06, gain=0.301379  
tree= 0, node=1737, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=1738, feature=11, thr= 49.76, gain=0.043086  
tree= 0, node=1739, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=2034, feature= 3, thr= 86.27, gain=0.836641  
tree= 0, node=2035, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=2046, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=2047, feature=15, thr= 0.00, gain=0.000000  
tree= 0, node=2362, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=2363, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=2496, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=2497, feature=15, thr= 21.71, gain=0.094459  
tree= 0, node=2500, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=2501, feature= 6, thr= 40.37, gain=0.015871

tree= 0, node=2654, feature=14, thr=100.00, gain=0.000000  
tree= 0, node=2655, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=2658, feature=12, thr= 55.24, gain=0.120456  
tree= 0, node=2659, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=2662, feature=12, thr= 97.18, gain=0.094084  
tree= 0, node=2663, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=2754, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=2755, feature=10, thr= 0.00, gain=0.000000  
tree= 0, node=2786, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=2787, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=2804, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=2805, feature=12, thr= 1.24, gain=0.027206  
tree= 0, node=3264, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=3265, feature=12, thr= 65.35, gain=0.330192  
tree= 0, node=3372, feature= 6, thr= 60.41, gain=0.029769  
tree= 0, node=3373, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=3402, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=3403, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=3472, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=3473, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=3476, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=3477, feature= 3, thr= 60.10, gain=0.143256  
tree= 0, node=4068, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=4069, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=4094, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=4095, feature=14, thr= 45.10, gain=0.036081  
tree= 0, node=4994, feature= 0, thr= 95.88, gain=0.110857  
tree= 0, node=4995, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=5002, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=5003, feature= 2, thr= -1.00, gain=-1.000000  
tree= 0, node=5308, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=5309, feature=12, thr= 50.04, gain=0.035039  
tree= 0, node=5316, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=5317, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=5324, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=5325, feature= 5, thr= -1.00, gain=-1.000000  
tree= 0, node=5510, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=5511, feature= 5, thr= 85.29, gain=0.037970  
tree= 0, node=5610, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=5611, feature= 6, thr= -1.00, gain=-1.000000  
tree= 0, node=6530, feature= 3, thr= 57.06, gain=0.004078  
tree= 0, node=6531, feature= 7, thr= -1.00, gain=-1.000000  
tree= 0, node=6745, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=6954, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=6955, feature=10, thr= 99.39, gain=0.039528  
tree= 0, node=8190, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=8191, feature= 0, thr= -1.00, gain=-1.000000  
tree= 0, node=9988, feature= 8, thr= -1.00, gain=-1.000000

tree= 0, node=9989, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=10618, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=10619, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=11022, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=11023, feature= 1, thr= -1.00, gain=-1.000000  
tree= 0, node=13060, feature=11, thr= 76.59, gain=0.014054  
tree= 0, node=13061, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=13910, feature= 1, thr= 93.12, gain=0.589640  
tree= 0, node=13911, feature= 8, thr= 92.33, gain=0.026230  
tree= 0, node=26120, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=26121, feature= 4, thr= -1.00, gain=-1.000000  
tree= 0, node=27820, feature= 8, thr= -1.00, gain=-1.000000  
tree= 0, node=27821, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=27822, feature= 3, thr= -1.00, gain=-1.000000  
tree= 0, node=27823, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node= 1, feature= 4, thr= 43.14, gain=0.537612  
tree= 1, node= 2, feature=13, thr= 52.94, gain=0.707126  
tree= 1, node= 3, feature=13, thr= 19.61, gain=0.487128  
tree= 1, node= 4, feature= 8, thr= 72.55, gain=0.429092  
tree= 1, node= 5, feature= 9, thr= 1.96, gain=0.219765  
tree= 1, node= 6, feature=10, thr= 49.02, gain=0.763936  
tree= 1, node= 7, feature=11, thr= 39.22, gain=0.622453  
tree= 1, node= 8, feature= 8, thr= 49.41, gain=0.187401  
tree= 1, node= 9, feature=14, thr= 13.73, gain=0.361213  
tree= 1, node= 10, feature= 1, thr= 98.53, gain=0.097332  
tree= 1, node= 11, feature= 5, thr= 40.53, gain=0.053863  
tree= 1, node= 12, feature=10, thr= 38.43, gain=0.059421  
tree= 1, node= 13, feature=13, thr= 1.12, gain=0.121274  
tree= 1, node= 14, feature= 1, thr= 78.98, gain=0.113422  
tree= 1, node= 15, feature=12, thr= 56.86, gain=0.446413  
tree= 1, node= 16, feature=13, thr= 18.00, gain=0.479638  
tree= 1, node= 17, feature=10, thr= 60.78, gain=0.408619  
tree= 1, node= 18, feature=10, thr= 86.82, gain=0.226034  
tree= 1, node= 19, feature= 2, thr= 43.14, gain=0.187726  
tree= 1, node= 20, feature= 7, thr= 27.00, gain=0.255216  
tree= 1, node= 21, feature= 0, thr= 48.94, gain=0.381971  
tree= 1, node= 22, feature=15, thr= 96.08, gain=0.135500  
tree= 1, node= 23, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node= 24, feature=10, thr= 2.24, gain=0.047528  
tree= 1, node= 25, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node= 26, feature=14, thr= 1.96, gain=0.091521  
tree= 1, node= 27, feature= 2, thr= 84.31, gain=0.446145  
tree= 1, node= 28, feature= 7, thr= 34.78, gain=0.155759  
tree= 1, node= 29, feature=14, thr= 45.10, gain=0.248322  
tree= 1, node= 30, feature= 7, thr= 39.22, gain=0.907146  
tree= 1, node= 31, feature= 6, thr= 72.55, gain=0.559351  
tree= 1, node= 32, feature=12, thr= 50.98, gain=0.514468  
tree= 1, node= 33, feature= 5, thr= 69.00, gain=0.079603

tree= 1, node= 34, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node= 35, feature= 5, thr= 70.98, gain=0.584425  
tree= 1, node= 36, feature=10, thr= 69.53, gain=0.167309  
tree= 1, node= 37, feature= 0, thr= 17.65, gain=0.095981  
tree= 1, node= 38, feature=12, thr= 41.18, gain=0.106637  
tree= 1, node= 39, feature= 6, thr= 48.24, gain=0.211148  
tree= 1, node= 40, feature=12, thr= 57.35, gain=0.531932  
tree= 1, node= 41, feature=11, thr= 38.86, gain=0.130341  
tree= 1, node= 42, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node= 43, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node= 44, feature= 2, thr= 27.59, gain=0.120892  
tree= 1, node= 45, feature= 5, thr= 12.24, gain=0.071685  
tree= 1, node= 48, feature= 8, thr= 34.27, gain=0.107553  
tree= 1, node= 49, feature=14, thr= 70.59, gain=0.277102  
tree= 1, node= 52, feature= 0, thr= 62.75, gain=0.278503  
tree= 1, node= 53, feature= 5, thr= 99.43, gain=0.359252  
tree= 1, node= 54, feature= 2, thr= 67.53, gain=0.114990  
tree= 1, node= 55, feature= 1, thr= 74.88, gain=0.389891  
tree= 1, node= 56, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node= 57, feature= 8, thr= 36.24, gain=0.135891  
tree= 1, node= 58, feature= 5, thr= 91.49, gain=0.232835  
tree= 1, node= 59, feature= 3, thr= 91.33, gain=0.104726  
tree= 1, node= 60, feature=13, thr= 82.12, gain=0.182437  
tree= 1, node= 61, feature= 5, thr= 68.33, gain=0.269674  
tree= 1, node= 62, feature=13, thr= 51.37, gain=0.933166  
tree= 1, node= 63, feature= 6, thr= 94.18, gain=0.081015  
tree= 1, node= 64, feature= 8, thr= 29.18, gain=0.283650  
tree= 1, node= 65, feature= 0, thr= 27.45, gain=0.865957  
tree= 1, node= 66, feature= 6, thr= 24.33, gain=0.132795  
tree= 1, node= 67, feature= 3, thr= 95.10, gain=0.085352  
tree= 1, node= 70, feature= 0, thr= 47.06, gain=0.206247  
tree= 1, node= 71, feature=10, thr= 91.59, gain=0.163747  
tree= 1, node= 72, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node= 73, feature= 6, thr= 67.53, gain=0.209100  
tree= 1, node= 74, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node= 75, feature= 9, thr= 11.53, gain=0.577654  
tree= 1, node= 76, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node= 77, feature= 7, thr= 62.90, gain=0.384991  
tree= 1, node= 78, feature=12, thr= 47.84, gain=0.452347  
tree= 1, node= 79, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node= 80, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node= 81, feature= 2, thr= 4.63, gain=0.359686  
tree= 1, node= 82, feature=13, thr= 73.59, gain=0.157906  
tree= 1, node= 83, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node= 88, feature=12, thr= 98.04, gain=0.055049  
tree= 1, node= 89, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node= 90, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node= 91, feature= 1, thr= 83.33, gain=0.054145

tree= 1, node= 96, feature= 4, thr= 98.92, gain=0.173044  
tree= 1, node= 97, feature= 4, thr= 85.73, gain=0.363022  
tree= 1, node= 98, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node= 99, feature=13, thr= 8.20, gain=0.017478  
tree= 1, node=104, feature=11, thr= 22.75, gain=0.349779  
tree= 1, node=105, feature= 5, thr= 85.18, gain=0.265879  
tree= 1, node=106, feature= 8, thr= 45.10, gain=0.318083  
tree= 1, node=107, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=108, feature= 0, thr= 1.96, gain=0.326569  
tree= 1, node=109, feature= 3, thr= 97.59, gain=0.655794  
tree= 1, node=110, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=111, feature=12, thr= 59.65, gain=0.175507  
tree= 1, node=114, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=115, feature=13, thr= 28.53, gain=0.084886  
tree= 1, node=116, feature= 5, thr= 62.94, gain=0.170166  
tree= 1, node=117, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=118, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=119, feature=13, thr= 25.76, gain=0.090979  
tree= 1, node=120, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=121, feature=10, thr= 39.22, gain=0.543564  
tree= 1, node=122, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=123, feature=11, thr= 60.18, gain=0.139316  
tree= 1, node=124, feature= 8, thr= 61.08, gain=0.085811  
tree= 1, node=125, feature= 5, thr= 24.02, gain=0.017672  
tree= 1, node=126, feature=15, thr= 66.67, gain=0.915026  
tree= 1, node=127, feature=14, thr= 37.25, gain=0.365838  
tree= 1, node=128, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=129, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=130, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=131, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=132, feature=10, thr= 81.88, gain=0.024408  
tree= 1, node=133, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=134, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=135, feature= 2, thr= 27.18, gain=0.209019  
tree= 1, node=140, feature= 6, thr= 17.65, gain=0.063657  
tree= 1, node=141, feature=13, thr= 28.00, gain=0.108883  
tree= 1, node=142, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=143, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=146, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=147, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=150, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=151, feature=11, thr= 22.90, gain=0.205668  
tree= 1, node=154, feature= 6, thr= 41.18, gain=0.009298  
tree= 1, node=155, feature= 8, thr= 98.47, gain=0.116783  
tree= 1, node=156, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=157, feature= 2, thr= 58.33, gain=0.155727  
tree= 1, node=162, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=163, feature= 7, thr= -1.00, gain=-1.000000



tree= 1, node=164, feature= 8, thr= 40.43, gain=0.082631  
tree= 1, node=165, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=176, feature= 5, thr= 15.69, gain=0.025005  
tree= 1, node=177, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=182, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=183, feature= 4, thr= 22.76, gain=0.827324  
tree= 1, node=192, feature= 1, thr= 98.76, gain=0.032173  
tree= 1, node=193, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=194, feature= 4, thr= 63.29, gain=0.184133  
tree= 1, node=195, feature= 4, thr= 98.08, gain=0.061806  
tree= 1, node=198, feature=12, thr= 37.96, gain=0.244532  
tree= 1, node=199, feature= 7, thr= 68.24, gain=0.131107  
tree= 1, node=208, feature= 7, thr= 79.88, gain=0.173621  
tree= 1, node=209, feature=13, thr= 0.02, gain=0.035239  
tree= 1, node=210, feature= 4, thr= 83.53, gain=0.422252  
tree= 1, node=211, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=212, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=213, feature= 4, thr= 56.86, gain=0.144804  
tree= 1, node=216, feature= 9, thr= 64.51, gain=0.220702  
tree= 1, node=217, feature= 8, thr= 44.41, gain=0.027854  
tree= 1, node=218, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=219, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=222, feature= 7, thr= 61.35, gain=0.372840  
tree= 1, node=223, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=230, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=231, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=232, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=233, feature= 1, thr= 87.06, gain=0.129976  
tree= 1, node=238, feature= 6, thr= 76.33, gain=0.239708  
tree= 1, node=239, feature= 7, thr= 32.06, gain=0.055515  
tree= 1, node=242, feature= 2, thr= 1.18, gain=0.006229  
tree= 1, node=243, feature= 2, thr= 45.10, gain=0.619382  
tree= 1, node=246, feature=12, thr= 25.25, gain=0.038454  
tree= 1, node=247, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=248, feature=15, thr= 1.25, gain=0.197453  
tree= 1, node=249, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=250, feature= 9, thr= 40.29, gain=0.024420  
tree= 1, node=251, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=252, feature= 5, thr= 70.35, gain=0.216668  
tree= 1, node=253, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=254, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=255, feature=11, thr= 41.18, gain=0.112480  
tree= 1, node=264, feature= 2, thr= 30.33, gain=0.165724  
tree= 1, node=265, feature= 2, thr= 8.14, gain=0.050193  
tree= 1, node=270, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=271, feature=12, thr= 51.76, gain=0.504249  
tree= 1, node=280, feature= 7, thr= 18.80, gain=0.445378  
tree= 1, node=281, feature= 3, thr= -1.00, gain=-1.000000

tree= 1, node=282, feature=15, thr= 0.55, gain=0.562920  
tree= 1, node=283, feature= 6, thr= 0.82, gain=0.161697  
tree= 1, node=302, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=303, feature=10, thr= 91.08, gain=0.027205  
tree= 1, node=308, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=309, feature= 4, thr= 0.84, gain=0.005939  
tree= 1, node=310, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=311, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=314, feature= 7, thr= 49.41, gain=0.703330  
tree= 1, node=315, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=328, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=329, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=352, feature= 4, thr= 40.47, gain=0.013371  
tree= 1, node=353, feature= 6, thr= 57.73, gain=0.071961  
tree= 1, node=366, feature= 2, thr= 7.39, gain=0.013492  
tree= 1, node=367, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=384, feature=13, thr= 0.37, gain=0.018140  
tree= 1, node=385, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=388, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=389, feature=11, thr= 19.12, gain=0.111910  
tree= 1, node=390, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=391, feature=13, thr= 5.22, gain=0.029504  
tree= 1, node=396, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=397, feature= 4, thr= 57.18, gain=0.013557  
tree= 1, node=398, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=399, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=416, feature= 9, thr= 46.65, gain=0.037357  
tree= 1, node=417, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=418, feature=15, thr= 12.55, gain=0.321208  
tree= 1, node=419, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=420, feature= 5, thr= 68.06, gain=0.019812  
tree= 1, node=421, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=426, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=427, feature=14, thr= 46.20, gain=0.202841  
tree= 1, node=432, feature= 9, thr= 36.39, gain=0.198905  
tree= 1, node=433, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=434, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=435, feature=12, thr= 65.27, gain=0.219467  
tree= 1, node=444, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=445, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=466, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=467, feature=10, thr= 86.55, gain=0.461647  
tree= 1, node=476, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=477, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=478, feature= 2, thr= 83.39, gain=0.125219  
tree= 1, node=479, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=484, feature= 0, thr= 16.29, gain=0.021366  
tree= 1, node=485, feature= 4, thr= -1.00, gain=-1.000000

tree= 1, node=486, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=487, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=492, feature= 2, thr= 10.82, gain=0.236070  
tree= 1, node=493, feature= 2, thr= 45.10, gain=0.157278  
tree= 1, node=496, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=497, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=500, feature= 3, thr= 38.59, gain=0.058368  
tree= 1, node=501, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=504, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=505, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=510, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=511, feature= 0, thr= 9.49, gain=0.099611  
tree= 1, node=528, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=529, feature= 9, thr= 0.29, gain=0.003811  
tree= 1, node=530, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=531, feature= 6, thr= 3.29, gain=0.025728  
tree= 1, node=542, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=543, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=560, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=561, feature= 8, thr= 55.35, gain=0.083741  
tree= 1, node=564, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=565, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=566, feature= 3, thr= 72.43, gain=0.316213  
tree= 1, node=567, feature=15, thr= 1.20, gain=0.236231  
tree= 1, node=606, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=607, feature= 0, thr= 77.27, gain=0.018294  
tree= 1, node=618, feature= 2, thr= 15.18, gain=0.027134  
tree= 1, node=619, feature= 0, thr= 61.18, gain=0.078232  
tree= 1, node=628, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=629, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=704, feature= 8, thr= 56.47, gain=0.020147  
tree= 1, node=705, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=706, feature=14, thr= 52.94, gain=0.248766  
tree= 1, node=707, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=732, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=733, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=768, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=769, feature= 5, thr= 91.37, gain=0.007359  
tree= 1, node=778, feature=15, thr= 1.06, gain=0.086982  
tree= 1, node=779, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=782, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=783, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=794, feature=15, thr= 5.18, gain=0.017710  
tree= 1, node=795, feature=13, thr= 3.14, gain=0.027762  
tree= 1, node=832, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=833, feature=15, thr= 6.31, gain=0.047489  
tree= 1, node=836, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=837, feature= 8, thr= -1.00, gain=-1.000000

tree= 1, node=840, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=841, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=854, feature=10, thr= 96.29, gain=0.148128  
tree= 1, node=855, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=864, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=865, feature= 6, thr= 96.51, gain=0.264202  
tree= 1, node=870, feature=12, thr= 34.25, gain=0.049529  
tree= 1, node=871, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=934, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=935, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=956, feature= 1, thr= 88.06, gain=0.117747  
tree= 1, node=957, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=968, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=969, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=984, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=985, feature=12, thr= 14.22, gain=0.022964  
tree= 1, node=986, feature=11, thr= 47.06, gain=0.145109  
tree= 1, node=987, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=1000, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=1001, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=1022, feature= 7, thr= 98.08, gain=0.032049  
tree= 1, node=1023, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=1058, feature= 6, thr= 0.47, gain=0.007624  
tree= 1, node=1059, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=1062, feature= 7, thr= 34.24, gain=0.259469  
tree= 1, node=1063, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=1122, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=1123, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=1132, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=1133, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=1134, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=1135, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=1214, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=1215, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=1236, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=1237, feature=15, thr= 1.61, gain=0.180525  
tree= 1, node=1238, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=1239, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=1408, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=1413, feature= 4, thr= -1.00, gain=-1.000000  
tree= 1, node=1538, feature= 9, thr= 0.82, gain=0.215530  
tree= 1, node=1539, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=1556, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=1557, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=1588, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=1589, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=1590, feature=13, thr= 2.06, gain=0.014474  
tree= 1, node=1591, feature= 1, thr= -1.00, gain=-1.000000

tree= 1, node=1666, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=1667, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=1708, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=1709, feature=12, thr= 49.24, gain=0.063475  
tree= 1, node=1730, feature= 0, thr= 0.02, gain=0.017745  
tree= 1, node=1731, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=1740, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=1741, feature=14, thr= 0.00, gain=0.000000  
tree= 1, node=1912, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=1913, feature=12, thr= 47.18, gain=0.031752  
tree= 1, node=1970, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=1971, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=1972, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=1973, feature= 1, thr= 72.47, gain=0.671007  
tree= 1, node=2044, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=2045, feature=10, thr= 79.10, gain=0.041646  
tree= 1, node=2116, feature= 0, thr= 94.67, gain=0.078160  
tree= 1, node=2117, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=2124, feature= 5, thr= 63.04, gain=0.009406  
tree= 1, node=2125, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=2474, feature= 6, thr= 60.88, gain=0.016885  
tree= 1, node=2475, feature= 7, thr= -1.00, gain=-1.000000  
tree= 1, node=3076, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=3077, feature= 7, thr= 45.18, gain=0.010176  
tree= 1, node=3180, feature=12, thr= 55.65, gain=0.030987  
tree= 1, node=3181, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=3418, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=3419, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=3460, feature= 2, thr= 46.65, gain=0.292421  
tree= 1, node=3461, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=3482, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=3483, feature=12, thr= 61.16, gain=0.037629  
tree= 1, node=3826, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=3827, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=3946, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=3947, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=4090, feature= 6, thr= 98.04, gain=0.074693  
tree= 1, node=4091, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=4232, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=4233, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=4248, feature=13, thr= 37.45, gain=0.015319  
tree= 1, node=4249, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=4948, feature= 2, thr= 36.12, gain=0.033569  
tree= 1, node=4949, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=6154, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=6155, feature=10, thr= 0.04, gain=0.001733  
tree= 1, node=6360, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=6361, feature= 1, thr= -1.00, gain=-1.000000

tree= 1, node=6920, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=6921, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=6966, feature= 7, thr= 81.06, gain=0.540478  
tree= 1, node=6967, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=8180, feature= 6, thr= -1.00, gain=-1.000000  
tree= 1, node=8181, feature= 2, thr= 23.88, gain=0.187530  
tree= 1, node=8496, feature= 9, thr= 6.27, gain=0.312733  
tree= 1, node=8497, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=9896, feature= 8, thr= 93.24, gain=0.064091  
tree= 1, node=9897, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=12310, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=12311, feature= 1, thr= -1.00, gain=-1.000000  
tree= 1, node=13932, feature= 5, thr= 61.00, gain=0.133040  
tree= 1, node=13933, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=16362, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=16363, feature= 0, thr= -1.00, gain=-1.000000  
tree= 1, node=16992, feature= 5, thr= -1.00, gain=-1.000000  
tree= 1, node=16993, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=19792, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=19793, feature= 3, thr= -1.00, gain=-1.000000  
tree= 1, node=27864, feature= 8, thr= -1.00, gain=-1.000000  
tree= 1, node=27865, feature= 2, thr= 48.00, gain=0.020524  
tree= 1, node=55730, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=55731, feature= 8, thr= 77.57, gain=0.031816  
tree= 1, node=111462, feature= 2, thr= -1.00, gain=-1.000000  
tree= 1, node=111463, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node= 1, feature= 8, thr= 58.82, gain=0.397103  
tree= 2, node= 2, feature=15, thr= 23.53, gain=0.603799  
tree= 2, node= 3, feature= 0, thr= 1.96, gain=0.395229  
tree= 2, node= 4, feature=15, thr= 1.35, gain=0.287981  
tree= 2, node= 5, feature= 8, thr= 20.47, gain=0.303500  
tree= 2, node= 6, feature=10, thr= 98.14, gain=0.356163  
tree= 2, node= 7, feature= 6, thr= 39.22, gain=0.164169  
tree= 2, node= 8, feature=15, thr= 0.02, gain=0.044626  
tree= 2, node= 9, feature= 3, thr= 96.08, gain=0.437403  
tree= 2, node= 10, feature=13, thr= 58.82, gain=0.573624  
tree= 2, node= 11, feature=12, thr= 56.86, gain=0.315410  
tree= 2, node= 12, feature= 4, thr= 49.53, gain=0.186582  
tree= 2, node= 13, feature=14, thr= 52.94, gain=0.287368  
tree= 2, node= 14, feature=15, thr= 47.06, gain=0.811559  
tree= 2, node= 15, feature= 6, thr= 77.65, gain=0.094650  
tree= 2, node= 16, feature=13, thr= 22.35, gain=0.557336  
tree= 2, node= 17, feature=12, thr= 52.08, gain=0.113336  
tree= 2, node= 18, feature= 1, thr= 98.16, gain=0.612774  
tree= 2, node= 19, feature=13, thr= 14.53, gain=0.367840  
tree= 2, node= 20, feature=15, thr= 35.65, gain=0.388978  
tree= 2, node= 21, feature=15, thr= 93.10, gain=0.099175  
tree= 2, node= 22, feature=10, thr= 60.78, gain=0.324531

tree= 2, node= 23, feature= 9, thr= 11.82, gain=0.573170  
tree= 2, node= 24, feature= 5, thr= 21.57, gain=0.981152  
tree= 2, node= 25, feature=11, thr= 29.41, gain=0.384329  
tree= 2, node= 26, feature= 0, thr= 0.02, gain=0.026798  
tree= 2, node= 27, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node= 28, feature=13, thr= 16.75, gain=0.586021  
tree= 2, node= 29, feature= 6, thr= 32.29, gain=0.019245  
tree= 2, node= 30, feature=12, thr= 60.78, gain=0.251082  
tree= 2, node= 31, feature= 6, thr= 90.08, gain=0.053244  
tree= 2, node= 32, feature=10, thr= 41.18, gain=0.734272  
tree= 2, node= 33, feature= 6, thr= 19.61, gain=0.345224  
tree= 2, node= 34, feature= 0, thr= 45.10, gain=0.290782  
tree= 2, node= 35, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node= 36, feature=11, thr= 18.43, gain=0.835358  
tree= 2, node= 37, feature=11, thr= 27.29, gain=0.134595  
tree= 2, node= 38, feature= 4, thr= 24.24, gain=0.140029  
tree= 2, node= 39, feature= 0, thr= 64.71, gain=0.678775  
tree= 2, node= 40, feature= 7, thr= 53.88, gain=0.253019  
tree= 2, node= 41, feature= 3, thr= 75.49, gain=0.410840  
tree= 2, node= 42, feature= 2, thr= 51.67, gain=0.052794  
tree= 2, node= 43, feature= 5, thr= 54.41, gain=0.034258  
tree= 2, node= 44, feature= 7, thr= 13.59, gain=0.259517  
tree= 2, node= 45, feature= 4, thr= 54.90, gain=0.721102  
tree= 2, node= 46, feature= 8, thr= 37.69, gain=0.060387  
tree= 2, node= 47, feature=10, thr= 54.90, gain=0.055861  
tree= 2, node= 48, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node= 49, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node= 50, feature= 1, thr= 72.41, gain=0.518202  
tree= 2, node= 51, feature= 4, thr= 64.71, gain=0.046696  
tree= 2, node= 52, feature=10, thr= 99.02, gain=0.013070  
tree= 2, node= 53, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node= 56, feature=14, thr= 1.37, gain=0.051063  
tree= 2, node= 57, feature=13, thr= 36.84, gain=0.107080  
tree= 2, node= 58, feature=13, thr= 56.86, gain=0.292092  
tree= 2, node= 59, feature= 6, thr= 35.12, gain=0.005615  
tree= 2, node= 60, feature=14, thr= 1.96, gain=0.562560  
tree= 2, node= 61, feature= 2, thr= 15.69, gain=0.346609  
tree= 2, node= 62, feature=14, thr= 1.96, gain=0.371877  
tree= 2, node= 63, feature= 1, thr= 95.47, gain=0.528861  
tree= 2, node= 64, feature=13, thr= 13.37, gain=0.089623  
tree= 2, node= 65, feature= 0, thr= 15.69, gain=0.397826  
tree= 2, node= 66, feature= 3, thr= 87.10, gain=0.163103  
tree= 2, node= 67, feature= 6, thr= 71.76, gain=0.293079  
tree= 2, node= 68, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node= 69, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node= 72, feature=14, thr= 13.41, gain=0.101169  
tree= 2, node= 73, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node= 74, feature= 2, thr= 17.65, gain=0.106862

tree= 2, node= 75, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node= 76, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node= 77, feature=10, thr= 45.10, gain=0.549134  
tree= 2, node= 78, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node= 79, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node= 80, feature= 1, thr= 93.57, gain=0.412223  
tree= 2, node= 81, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node= 82, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node= 83, feature= 4, thr= 41.02, gain=0.536636  
tree= 2, node= 84, feature=12, thr= 59.76, gain=0.503410  
tree= 2, node= 85, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node= 86, feature= 7, thr= 16.31, gain=0.005256  
tree= 2, node= 87, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node= 88, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node= 89, feature=12, thr= 30.75, gain=0.058952  
tree= 2, node= 90, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node= 91, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node= 92, feature=15, thr= 64.24, gain=0.537369  
tree= 2, node= 93, feature= 6, thr= 41.18, gain=0.872982  
tree= 2, node= 94, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node= 95, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=100, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=101, feature= 4, thr= 93.55, gain=0.076084  
tree= 2, node=102, feature= 6, thr= 94.10, gain=0.193170  
tree= 2, node=103, feature=10, thr= 74.94, gain=0.083617  
tree= 2, node=104, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=105, feature= 4, thr= 64.35, gain=0.138401  
tree= 2, node=112, feature=14, thr= 0.02, gain=0.007766  
tree= 2, node=113, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=114, feature= 3, thr= 98.08, gain=0.161742  
tree= 2, node=115, feature= 1, thr= 79.35, gain=0.228096  
tree= 2, node=116, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=117, feature=10, thr= 99.02, gain=0.003851  
tree= 2, node=118, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=119, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=120, feature=10, thr= 99.06, gain=0.056643  
tree= 2, node=121, feature=15, thr= 13.73, gain=0.883998  
tree= 2, node=122, feature= 6, thr= 68.29, gain=0.101459  
tree= 2, node=123, feature=15, thr= 1.96, gain=0.218404  
tree= 2, node=124, feature=12, thr= 32.33, gain=0.387758  
tree= 2, node=125, feature= 2, thr= 54.90, gain=0.519909  
tree= 2, node=126, feature=10, thr= 52.94, gain=0.362431  
tree= 2, node=127, feature= 0, thr= 68.67, gain=0.693380  
tree= 2, node=128, feature=13, thr= 5.10, gain=0.033776  
tree= 2, node=129, feature= 6, thr= 26.47, gain=0.140402  
tree= 2, node=130, feature=13, thr= 13.37, gain=0.240502  
tree= 2, node=131, feature=11, thr= 51.10, gain=0.326453  
tree= 2, node=132, feature= 5, thr= 63.53, gain=1.000000



tree= 2, node=133, feature= 4, thr= 38.24, gain=0.700750  
tree= 2, node=134, feature=11, thr= 32.12, gain=0.376020  
tree= 2, node=135, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=144, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=145, feature= 4, thr= 78.31, gain=0.076734  
tree= 2, node=148, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=149, feature= 5, thr= 75.94, gain=0.037120  
tree= 2, node=154, feature= 4, thr= 85.29, gain=0.062628  
tree= 2, node=155, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=160, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=161, feature= 8, thr= 16.08, gain=0.033777  
tree= 2, node=166, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=167, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=168, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=169, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=172, feature= 1, thr= 91.76, gain=0.017968  
tree= 2, node=173, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=178, feature= 1, thr= 63.53, gain=0.193797  
tree= 2, node=179, feature=12, thr= 40.31, gain=0.046697  
tree= 2, node=184, feature=10, thr= 53.94, gain=0.514675  
tree= 2, node=185, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=186, feature= 0, thr= 98.12, gain=0.042197  
tree= 2, node=187, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=202, feature= 7, thr= 62.88, gain=0.327219  
tree= 2, node=203, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=204, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=205, feature= 4, thr= 58.24, gain=0.060569  
tree= 2, node=206, feature= 2, thr= 33.25, gain=0.089980  
tree= 2, node=207, feature= 6, thr= 93.53, gain=0.060303  
tree= 2, node=210, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=211, feature=13, thr= 15.69, gain=0.621630  
tree= 2, node=224, feature= 2, thr= 56.37, gain=0.100483  
tree= 2, node=225, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=228, feature= 5, thr= 62.27, gain=0.345374  
tree= 2, node=229, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=230, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=231, feature= 7, thr= 24.29, gain=0.524426  
tree= 2, node=234, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=235, feature=15, thr= 87.37, gain=0.044321  
tree= 2, node=240, feature= 2, thr= 25.49, gain=0.576123  
tree= 2, node=241, feature=10, thr=100.00, gain=0.000000  
tree= 2, node=242, feature= 0, thr= 79.29, gain=0.240609  
tree= 2, node=243, feature=12, thr= 35.29, gain=0.138539  
tree= 2, node=244, feature= 7, thr= 7.84, gain=0.999848  
tree= 2, node=245, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=246, feature=11, thr= 67.47, gain=0.366253  
tree= 2, node=247, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=248, feature=14, thr= 0.02, gain=0.011453

tree= 2, node=249, feature= 1, thr= 68.63, gain=0.192808  
tree= 2, node=250, feature=11, thr= 74.51, gain=0.558703  
tree= 2, node=251, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=252, feature= 8, thr= 73.47, gain=0.436749  
tree= 2, node=253, feature=12, thr= 32.67, gain=0.623880  
tree= 2, node=254, feature= 9, thr= 39.22, gain=0.378959  
tree= 2, node=255, feature= 2, thr= 25.41, gain=0.376421  
tree= 2, node=256, feature=12, thr= 47.41, gain=0.069854  
tree= 2, node=257, feature= 7, thr= 69.35, gain=0.111910  
tree= 2, node=258, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=259, feature=15, thr= 0.00, gain=0.000000  
tree= 2, node=260, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=261, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=262, feature= 9, thr= 39.53, gain=0.447612  
tree= 2, node=263, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=264, feature=15, thr= 0.00, gain=0.000000  
tree= 2, node=265, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=266, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=267, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=268, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=269, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=290, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=291, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=298, feature=13, thr= 2.59, gain=0.055695  
tree= 2, node=299, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=308, feature=15, thr= 18.06, gain=0.051483  
tree= 2, node=309, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=322, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=323, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=344, feature= 0, thr= 54.90, gain=0.225838  
tree= 2, node=345, feature= 6, thr= 76.47, gain=0.150032  
tree= 2, node=356, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=357, feature= 0, thr= 47.06, gain=0.173295  
tree= 2, node=358, feature= 0, thr= 23.53, gain=0.827329  
tree= 2, node=359, feature= 3, thr= 96.24, gain=0.056325  
tree= 2, node=368, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=369, feature=13, thr= 43.51, gain=0.062721  
tree= 2, node=372, feature= 9, thr= 0.14, gain=0.044886  
tree= 2, node=373, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=404, feature= 9, thr= 31.76, gain=0.232928  
tree= 2, node=405, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=410, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=411, feature=14, thr= 52.76, gain=0.128810  
tree= 2, node=412, feature=10, thr= 63.29, gain=0.081058  
tree= 2, node=413, feature=10, thr= 29.29, gain=0.087626  
tree= 2, node=414, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=415, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=422, feature= 4, thr= 68.24, gain=0.038701

tree= 2, node=423, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=448, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=449, feature= 5, thr= 99.08, gain=0.296110  
tree= 2, node=456, feature= 3, thr= 63.47, gain=0.057666  
tree= 2, node=457, feature=13, thr= 23.06, gain=0.063921  
tree= 2, node=462, feature= 2, thr= 51.88, gain=0.091450  
tree= 2, node=463, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=470, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=480, feature= 5, thr= 29.80, gain=0.465070  
tree= 2, node=481, feature= 4, thr= 50.98, gain=0.585118  
tree= 2, node=482, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=483, feature=10, thr=100.00, gain=0.000000  
tree= 2, node=484, feature= 3, thr= 56.86, gain=0.155069  
tree= 2, node=485, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=486, feature=10, thr= 41.41, gain=0.865085  
tree= 2, node=487, feature= 4, thr= 0.73, gain=0.167731  
tree= 2, node=489, feature=11, thr= 33.33, gain=0.433819  
tree= 2, node=492, feature= 9, thr= 58.24, gain=0.690215  
tree= 2, node=493, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=496, feature= 6, thr= 85.06, gain=0.106523  
tree= 2, node=497, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=498, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=499, feature=14, thr= 0.00, gain=0.000000  
tree= 2, node=500, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=501, feature= 2, thr= 11.25, gain=0.285723  
tree= 2, node=504, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=505, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=506, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=507, feature= 0, thr= 55.80, gain=0.985228  
tree= 2, node=508, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=509, feature=12, thr= 49.29, gain=0.059195  
tree= 2, node=510, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=511, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=512, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=513, feature= 2, thr= 35.41, gain=0.026233  
tree= 2, node=514, feature= 4, thr= 57.92, gain=0.021437  
tree= 2, node=515, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=518, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=519, feature=13, thr= 16.04, gain=0.037311  
tree= 2, node=524, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=525, feature= 3, thr= 78.82, gain=0.146153  
tree= 2, node=528, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=529, feature=13, thr= 24.12, gain=0.041603  
tree= 2, node=596, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=597, feature=11, thr= 1.06, gain=0.006975  
tree= 2, node=616, feature=12, thr= 50.47, gain=0.204140  
tree= 2, node=617, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=688, feature=13, thr= 82.12, gain=0.044481

tree= 2, node=689, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=690, feature= 7, thr= 0.27, gain=0.012790  
tree= 2, node=691, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=714, feature= 6, thr= 89.22, gain=0.142124  
tree= 2, node=715, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=716, feature= 1, thr= 72.55, gain=0.098638  
tree= 2, node=717, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=718, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=719, feature=15, thr= 69.94, gain=0.659710  
tree= 2, node=738, feature= 1, thr= 97.45, gain=0.120194  
tree= 2, node=739, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=744, feature=11, thr= 18.69, gain=0.280086  
tree= 2, node=745, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=808, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=809, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=822, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=823, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=824, feature= 0, thr= 0.00, gain=0.000000  
tree= 2, node=825, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=826, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=827, feature= 0, thr= 0.02, gain=0.053633  
tree= 2, node=844, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=845, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=898, feature=11, thr= 36.94, gain=0.335626  
tree= 2, node=899, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=912, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=913, feature= 0, thr= 46.20, gain=0.204838  
tree= 2, node=914, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=915, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=924, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=925, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=961, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=962, feature= 3, thr= 93.57, gain=0.224322  
tree= 2, node=963, feature= 4, thr= 68.67, gain=0.058487  
tree= 2, node=966, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=967, feature= 4, thr= 60.78, gain=0.562339  
tree= 2, node=968, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=969, feature= 6, thr= 54.51, gain=0.039598  
tree= 2, node=972, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=973, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=974, feature= 1, thr= 90.78, gain=0.494794  
tree= 2, node=975, feature=15, thr= 59.76, gain=0.016365  
tree= 2, node=978, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=979, feature=14, thr= 19.06, gain=0.149811  
tree= 2, node=984, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=985, feature=13, thr= 24.59, gain=0.099864  
tree= 2, node=992, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=993, feature= 0, thr= -1.00, gain=-1.000000

tree= 2, node=998, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=999, feature= 9, thr= 53.45, gain=0.467524  
tree= 2, node=1002, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=1003, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=1014, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=1015, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=1018, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=1019, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=1026, feature= 1, thr= 62.82, gain=0.061959  
tree= 2, node=1027, feature= 8, thr= 37.75, gain=0.194786  
tree= 2, node=1028, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=1029, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=1038, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=1039, feature=15, thr= 0.00, gain=0.000000  
tree= 2, node=1050, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=1051, feature= 8, thr= 42.08, gain=0.100185  
tree= 2, node=1058, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=1059, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=1194, feature=11, thr= 0.02, gain=0.039625  
tree= 2, node=1195, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=1232, feature=13, thr= 0.27, gain=0.035944  
tree= 2, node=1233, feature= 2, thr= 69.61, gain=0.035905  
tree= 2, node=1376, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=1377, feature= 1, thr= 66.41, gain=0.006913  
tree= 2, node=1380, feature= 5, thr= 46.55, gain=0.012234  
tree= 2, node=1381, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=1428, feature= 2, thr= 7.84, gain=0.084996  
tree= 2, node=1429, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=1432, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=1433, feature= 6, thr= 76.20, gain=0.068456  
tree= 2, node=1438, feature= 5, thr= 74.12, gain=0.015629  
tree= 2, node=1439, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=1476, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=1477, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=1488, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=1489, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=1648, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=1649, feature=12, thr= 15.00, gain=0.122418  
tree= 2, node=1654, feature= 6, thr= 99.20, gain=0.033992  
tree= 2, node=1655, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=1796, feature=10, thr= 99.24, gain=0.213771  
tree= 2, node=1797, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=1826, feature=10, thr= 99.12, gain=0.017552  
tree= 2, node=1827, feature= 4, thr= 3.14, gain=0.178972  
tree= 2, node=1924, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=1925, feature=11, thr= 19.88, gain=0.438001  
tree= 2, node=1926, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=1927, feature=15, thr= 35.37, gain=0.093778

tree= 2, node=1934, feature= 9, thr= 38.75, gain=0.826396  
tree= 2, node=1935, feature= 1, thr= 94.35, gain=0.299127  
tree= 2, node=1938, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=1939, feature= 6, thr= 56.29, gain=0.059495  
tree= 2, node=1948, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=1949, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=1950, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=1951, feature=13, thr= 58.67, gain=0.403797  
tree= 2, node=1958, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=1959, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=1970, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=1971, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=1998, feature=12, thr= 46.33, gain=0.253924  
tree= 2, node=1999, feature=15, thr= 16.18, gain=0.380947  
tree= 2, node=2052, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=2053, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=2054, feature= 1, thr= 73.47, gain=0.066204  
tree= 2, node=2055, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=2078, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=2079, feature= 4, thr= 98.96, gain=0.327056  
tree= 2, node=2102, feature= 0, thr= 34.12, gain=0.066185  
tree= 2, node=2103, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=2388, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=2389, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=2464, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=2465, feature=11, thr= 3.24, gain=0.135172  
tree= 2, node=2466, feature= 2, thr= 21.12, gain=0.011539  
tree= 2, node=2467, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=2754, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=2755, feature=14, thr= 58.82, gain=0.521686  
tree= 2, node=2760, feature= 0, thr= 56.86, gain=0.200107  
tree= 2, node=2761, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=2856, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=2857, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=2866, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=2867, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=2876, feature= 7, thr= 33.39, gain=0.043569  
tree= 2, node=2877, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=3298, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=3299, feature= 0, thr= 0.00, gain=0.000000  
tree= 2, node=3308, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=3309, feature= 2, thr= 40.12, gain=0.047655  
tree= 2, node=3592, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=3593, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=3652, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=3653, feature= 4, thr= 4.12, gain=0.090426  
tree= 2, node=3654, feature= 1, thr= 93.18, gain=0.170331  
tree= 2, node=3655, feature= 0, thr= 76.55, gain=0.041637

tree= 2, node=3850, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=3851, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=3854, feature=13, thr= 1.10, gain=0.036265  
tree= 2, node=3855, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=3868, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=3869, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=3870, feature=12, thr= 57.06, gain=0.021988  
tree= 2, node=3871, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=3878, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=3879, feature= 2, thr= 51.75, gain=0.479832  
tree= 2, node=3902, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=3996, feature= 9, thr= 37.08, gain=0.220299  
tree= 2, node=3997, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=3998, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=3999, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=4108, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=4109, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=4158, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=4159, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=4204, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=4205, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=4930, feature=12, thr= 38.06, gain=0.155547  
tree= 2, node=4931, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=4932, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=4933, feature=13, thr= 2.20, gain=0.030803  
tree= 2, node=5510, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=5511, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=5520, feature=11, thr= 68.00, gain=0.237631  
tree= 2, node=5521, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=5752, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=5753, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=6598, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=6599, feature= 6, thr= 94.12, gain=0.318215  
tree= 2, node=6618, feature= 9, thr= 64.24, gain=0.258833  
tree= 2, node=6619, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=7306, feature= 0, thr= 24.43, gain=0.017297  
tree= 2, node=7307, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=7308, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=7309, feature= 1, thr=100.00, gain=0.000000  
tree= 2, node=7310, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=7311, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=7708, feature= 9, thr= 50.61, gain=0.175649  
tree= 2, node=7709, feature=14, thr= 0.00, gain=0.000000  
tree= 2, node=7740, feature=14, thr= 0.00, gain=0.000000  
tree= 2, node=7741, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=7758, feature=15, thr= 0.00, gain=0.000000  
tree= 2, node=7759, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=7992, feature= 2, thr= -1.00, gain=-1.000000

tree= 2, node=7993, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=9860, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=9861, feature= 6, thr= 48.00, gain=0.121900  
tree= 2, node=9866, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=9867, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=11040, feature= 5, thr= 35.41, gain=0.177648  
tree= 2, node=11041, feature=10, thr= 29.06, gain=0.097941  
tree= 2, node=13198, feature= 8, thr= -1.00, gain=-1.000000  
tree= 2, node=13199, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=13236, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=13237, feature= 3, thr= 84.90, gain=0.282905  
tree= 2, node=14612, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=14613, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=14618, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=14619, feature= 9, thr= 19.41, gain=0.806091  
tree= 2, node=15416, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=15417, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=15418, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=15419, feature= 4, thr= 79.33, gain=0.108557  
tree= 2, node=15480, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=15481, feature=10, thr=100.00, gain=0.000000  
tree= 2, node=15516, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=15517, feature= 2, thr= 4.00, gain=0.019331  
tree= 2, node=19722, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=19723, feature= 1, thr= -1.00, gain=-1.000000  
tree= 2, node=22080, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=22081, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=22082, feature= 4, thr= -1.00, gain=-1.000000  
tree= 2, node=22083, feature= 7, thr= -1.00, gain=-1.000000  
tree= 2, node=26474, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=26475, feature= 6, thr= -1.00, gain=-1.000000  
tree= 2, node=29238, feature= 5, thr= -1.00, gain=-1.000000  
tree= 2, node=29239, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=30838, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=30839, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=30962, feature= 0, thr= -1.00, gain=-1.000000  
tree= 2, node=30963, feature= 0, thr= 44.71, gain=0.049466  
tree= 2, node=31034, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=31035, feature= 3, thr= -1.00, gain=-1.000000  
tree= 2, node=61926, feature= 2, thr= -1.00, gain=-1.000000  
tree= 2, node=61927, feature= 2, thr= -1.00, gain=-1.000000  
classification accuracy=0.8453