**dtree pendigits\_training pendigits\_test optimized 50**

tree= 0, node= 1, feature=15, thr= 25.00, gain=0.622315

tree= 0, node= 2, feature= 4, thr= 41.00, gain=0.587774

tree= 0, node= 4, feature= 9, thr= 19.00, gain=0.694970

tree= 0, node= 8, feature=14, thr= 54.00, gain=0.484033

tree= 0, node= 16, feature= 0, thr= 16.00, gain=0.024945

tree= 0, node= 32, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 33, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 17, feature=10, thr= 47.00, gain=0.993570

tree= 0, node= 34, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 35, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 9, feature= 5, thr= 64.00, gain=0.615180

tree= 0, node= 18, feature=15, thr= 1.00, gain=0.207475

tree= 0, node= 36, feature= 9, thr= 85.00, gain=0.106175

tree= 0, node= 72, feature= 5, thr= 2.00, gain=0.016354

tree= 0, node=144, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=145, feature= 9, thr= 20.00, gain=0.010906

tree= 0, node=290, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=291, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 73, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 37, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 19, feature= 9, thr= 61.00, gain=0.512832

tree= 0, node= 38, feature=13, thr= 18.00, gain=0.744533

tree= 0, node= 76, feature=10, thr= 60.00, gain=0.727820

tree= 0, node=152, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=153, feature= 7, thr= 73.00, gain=0.507666

tree= 0, node=306, feature= 1, thr= 88.00, gain=0.236640

tree= 0, node=612, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=613, feature= 2, thr= 1.00, gain=0.094084

tree= 0, node=1226, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1227, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=307, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 77, feature= 5, thr= 77.00, gain=0.329846

tree= 0, node=154, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=155, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 39, feature= 0, thr= 39.00, gain=0.190923

tree= 0, node= 78, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 79, feature= 1, thr= 93.00, gain=0.107028

tree= 0, node=158, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=159, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 5, feature=10, thr= 39.00, gain=0.621049

tree= 0, node= 10, feature=14, thr= 37.00, gain=0.224463

tree= 0, node= 20, feature=12, thr= 26.00, gain=0.721928

tree= 0, node= 40, feature= 3, thr= 96.00, gain=0.333254

tree= 0, node= 80, feature= 5, thr= 70.00, gain=0.242292

tree= 0, node=160, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=161, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 81, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 41, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 21, feature= 8, thr= 34.00, gain=0.130605

tree= 0, node= 42, feature= 9, thr= 2.00, gain=0.072210

tree= 0, node= 84, feature= 8, thr= 12.00, gain=0.367390

tree= 0, node=168, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=169, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 85, feature= 7, thr= 74.00, gain=0.050921

tree= 0, node=170, feature=12, thr= 12.00, gain=0.022573

tree= 0, node=340, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=341, feature= 9, thr= 6.00, gain=0.007238

tree= 0, node=682, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=683, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=171, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 43, feature= 6, thr= 65.00, gain=0.242832

tree= 0, node= 86, feature=12, thr= 56.00, gain=0.374389

tree= 0, node=172, feature=13, thr= 17.00, gain=0.160823

tree= 0, node=344, feature= 6, thr= 59.00, gain=0.160531

tree= 0, node=688, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=689, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=345, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=173, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 87, feature= 8, thr= 49.00, gain=0.202813

tree= 0, node=174, feature=15, thr= 17.00, gain=0.112588

tree= 0, node=348, feature= 0, thr= 73.00, gain=0.049479

tree= 0, node=696, feature= 1, thr= 90.00, gain=0.024403

tree= 0, node=1392, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1393, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=697, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=349, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=175, feature=11, thr= 6.00, gain=0.525941

tree= 0, node=350, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=351, feature= 9, thr= 53.00, gain=0.268740

tree= 0, node=702, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=703, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 11, feature= 3, thr= 90.00, gain=0.683024

tree= 0, node= 22, feature= 6, thr= 72.00, gain=0.526344

tree= 0, node= 44, feature=14, thr= 96.00, gain=0.344882

tree= 0, node= 88, feature= 1, thr= 41.00, gain=0.354420

tree= 0, node=176, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=177, feature= 7, thr= 67.00, gain=0.355632

tree= 0, node=354, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=355, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 89, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 45, feature= 1, thr= 80.00, gain=0.334381

tree= 0, node= 90, feature=15, thr= 10.00, gain=0.133354

tree= 0, node=180, feature= 0, thr= 60.00, gain=0.032594

tree= 0, node=360, feature=13, thr= 36.00, gain=0.025982

tree= 0, node=720, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=721, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=361, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=181, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 91, feature= 0, thr= 37.00, gain=0.659007

tree= 0, node=182, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=183, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 23, feature= 7, thr= 77.00, gain=0.395532

tree= 0, node= 46, feature= 4, thr= 66.00, gain=0.255841

tree= 0, node= 92, feature= 2, thr= 64.00, gain=0.641136

tree= 0, node=184, feature= 9, thr= 29.00, gain=0.468074

tree= 0, node=368, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=369, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=185, feature= 9, thr= 21.00, gain=0.690429

tree= 0, node=370, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=371, feature= 1, thr= 81.00, gain=0.612101

tree= 0, node=742, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=743, feature= 8, thr= 98.00, gain=0.618993

tree= 0, node=1486, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1487, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 93, feature=14, thr= 43.00, gain=0.142189

tree= 0, node=186, feature= 2, thr= 90.00, gain=0.128421

tree= 0, node=372, feature= 9, thr= 9.00, gain=0.054826

tree= 0, node=744, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=745, feature= 3, thr= 98.00, gain=0.050882

tree= 0, node=1490, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1491, feature=12, thr= 1.00, gain=0.017939

tree= 0, node=2982, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2983, feature= 2, thr= 87.00, gain=0.008569

tree= 0, node=5966, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=5967, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=373, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=187, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 47, feature= 5, thr= 90.00, gain=0.788950

tree= 0, node= 94, feature= 2, thr= 86.00, gain=0.087281

tree= 0, node=188, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=189, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 95, feature= 6, thr= 70.00, gain=0.980117

tree= 0, node=190, feature= 4, thr= 49.00, gain=0.309543

tree= 0, node=380, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=381, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=191, feature=11, thr= 40.00, gain=0.547459

tree= 0, node=382, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=383, feature= 2, thr= 46.00, gain=0.172037

tree= 0, node=766, feature= 1, thr= 67.00, gain=0.074751

tree= 0, node=1532, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1533, feature= 2, thr= 42.00, gain=0.065426

tree= 0, node=3066, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3067, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=767, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 3, feature=13, thr= 58.00, gain=0.693090

tree= 0, node= 6, feature= 0, thr= 35.00, gain=0.702301

tree= 0, node= 12, feature=14, thr= 39.00, gain=0.251516

tree= 0, node= 24, feature= 1, thr= 84.00, gain=0.544247

tree= 0, node= 48, feature= 8, thr= 76.00, gain=0.515947

tree= 0, node= 96, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 97, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 49, feature= 6, thr= 50.00, gain=0.637785

tree= 0, node= 98, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 99, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 25, feature=13, thr= 1.00, gain=0.118655

tree= 0, node= 50, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 51, feature= 1, thr= 61.00, gain=0.061946

tree= 0, node=102, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=103, feature= 8, thr= 3.00, gain=0.027338

tree= 0, node=206, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=207, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 13, feature=10, thr= 31.00, gain=0.575440

tree= 0, node= 26, feature=15, thr= 32.00, gain=0.226363

tree= 0, node= 52, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 53, feature= 0, thr= 54.00, gain=0.134851

tree= 0, node=106, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=107, feature=14, thr= 1.00, gain=0.045886

tree= 0, node=214, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=215, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 27, feature= 9, thr= 20.00, gain=0.423744

tree= 0, node= 54, feature= 6, thr= 41.00, gain=0.275487

tree= 0, node=108, feature=14, thr= 60.00, gain=0.177126

tree= 0, node=216, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=217, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=109, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 55, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 7, feature= 8, thr= 58.00, gain=0.797073

tree= 0, node= 14, feature=14, thr= 96.00, gain=0.718251

tree= 0, node= 28, feature=11, thr= 32.00, gain=0.189660

tree= 0, node= 56, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 57, feature=12, thr= 21.00, gain=0.158343

tree= 0, node=114, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=115, feature= 1, thr= 26.00, gain=0.028826

tree= 0, node=230, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=231, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 29, feature=13, thr= 72.00, gain=0.394625

tree= 0, node= 58, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 59, feature= 5, thr= 55.00, gain=0.006884

tree= 0, node=118, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=119, feature= 6, thr= 45.00, gain=0.097300

tree= 0, node=238, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=239, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 15, feature= 7, thr= 27.00, gain=0.229647

tree= 0, node= 30, feature= 2, thr= 54.00, gain=0.084902

tree= 0, node= 60, feature= 6, thr= 98.00, gain=0.025547

tree= 0, node=120, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=121, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 61, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 31, feature= 3, thr= 27.00, gain=0.959687

tree= 0, node= 62, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 63, feature=-1, thr= -1.00, gain=0.000000

classification accuracy=0.8562

**dtree pendigits\_training pendigits\_test randomized 50**

tree= 0, node= 1, feature=16, thr= 5.00, gain=0.999574

tree= 0, node= 2, feature= 2, thr= 23.00, gain=0.357515

tree= 0, node= 4, feature= 0, thr= 1.00, gain=0.200236

tree= 0, node= 8, feature=13, thr= 17.00, gain=0.742340

tree= 0, node= 16, feature= 0, thr= 0.00, gain=0.000000

tree= 0, node= 32, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 33, feature= 1, thr= 65.00, gain=0.195915

tree= 0, node= 66, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 67, feature=15, thr= 5.00, gain=0.024024

tree= 0, node=134, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=135, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 17, feature= 6, thr= 53.00, gain=0.467340

tree= 0, node= 34, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 35, feature= 8, thr= 88.00, gain=0.199753

tree= 0, node= 70, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 71, feature= 5, thr= 23.00, gain=0.954434

tree= 0, node=142, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=143, feature=10, thr= 89.00, gain=0.077481

tree= 0, node=286, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=287, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 9, feature= 4, thr= 25.00, gain=0.162515

tree= 0, node= 18, feature= 0, thr= 82.00, gain=0.024197

tree= 0, node= 36, feature= 9, thr= 35.00, gain=0.286107

tree= 0, node= 72, feature=12, thr= 53.00, gain=0.039423

tree= 0, node=144, feature=14, thr= 35.00, gain=0.391244

tree= 0, node=288, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=289, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=145, feature=15, thr= 1.00, gain=0.687835

tree= 0, node=290, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=291, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 73, feature= 6, thr= 60.00, gain=0.138717

tree= 0, node=146, feature= 2, thr= 1.00, gain=0.030220

tree= 0, node=292, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=293, feature=13, thr= 54.00, gain=0.216397

tree= 0, node=586, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=587, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=147, feature=11, thr= 78.00, gain=0.403508

tree= 0, node=294, feature=11, thr= 33.00, gain=0.074149

tree= 0, node=588, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=589, feature= 8, thr= 71.00, gain=0.131107

tree= 0, node=1178, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1179, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=295, feature=10, thr= 76.00, gain=0.180427

tree= 0, node=590, feature=14, thr= 14.00, gain=0.448215

tree= 0, node=1180, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1181, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=591, feature= 5, thr= 22.00, gain=0.470626

tree= 0, node=1182, feature= 2, thr= 1.00, gain=0.009788

tree= 0, node=2364, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2365, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1183, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 37, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 19, feature= 0, thr= 9.00, gain=0.053043

tree= 0, node= 38, feature= 2, thr= 3.00, gain=0.291846

tree= 0, node= 76, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 77, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 39, feature= 6, thr= 56.00, gain=0.274890

tree= 0, node= 78, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 79, feature= 5, thr= 21.00, gain=0.883823

tree= 0, node=158, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=159, feature=12, thr= 38.00, gain=0.194245

tree= 0, node=318, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=319, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 5, feature= 7, thr= 49.00, gain=0.408850

tree= 0, node= 10, feature= 1, thr= 97.00, gain=0.605142

tree= 0, node= 20, feature= 0, thr= 64.00, gain=0.183829

tree= 0, node= 40, feature= 4, thr= 41.00, gain=0.191528

tree= 0, node= 80, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 81, feature= 9, thr= 28.00, gain=0.294582

tree= 0, node=162, feature= 5, thr= 81.00, gain=0.057479

tree= 0, node=324, feature= 7, thr= 37.00, gain=0.044363

tree= 0, node=648, feature=13, thr= 17.00, gain=0.042090

tree= 0, node=1296, feature= 8, thr= 17.00, gain=0.331612

tree= 0, node=2592, feature=13, thr= 7.00, gain=0.013358

tree= 0, node=5184, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=5185, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2593, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1297, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=649, feature= 8, thr= 54.00, gain=0.076292

tree= 0, node=1298, feature=14, thr= 98.00, gain=0.000412

tree= 0, node=2596, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2597, feature=12, thr= 36.00, gain=0.051791

tree= 0, node=5194, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=5195, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1299, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=325, feature=12, thr= 55.00, gain=0.101630

tree= 0, node=650, feature=10, thr= 1.00, gain=0.174520

tree= 0, node=1300, feature=14, thr= 95.00, gain=0.027302

tree= 0, node=2600, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2601, feature= 7, thr= 35.00, gain=0.118823

tree= 0, node=5202, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=5203, feature=11, thr= 14.00, gain=0.036395

tree= 0, node=10406, feature= 6, thr= 68.00, gain=0.131526

tree= 0, node=20812, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=20813, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=10407, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1301, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=651, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=163, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 41, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 21, feature=11, thr= 29.00, gain=0.315656

tree= 0, node= 42, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 43, feature=12, thr= 55.00, gain=0.037542

tree= 0, node= 86, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 87, feature= 3, thr= 75.00, gain=0.032512

tree= 0, node=174, feature= 6, thr= 25.00, gain=0.014874

tree= 0, node=348, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=349, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=175, feature= 6, thr= 1.00, gain=0.095204

tree= 0, node=350, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=351, feature= 1, thr= 99.00, gain=0.029720

tree= 0, node=702, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=703, feature=13, thr= 48.00, gain=0.665580

tree= 0, node=1406, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1407, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 11, feature=10, thr= 52.00, gain=0.494252

tree= 0, node= 22, feature= 8, thr= 49.00, gain=0.221226

tree= 0, node= 44, feature= 4, thr= 49.00, gain=0.138931

tree= 0, node= 88, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 89, feature= 2, thr= 50.00, gain=0.068427

tree= 0, node=178, feature= 0, thr= 24.00, gain=0.028980

tree= 0, node=356, feature= 7, thr= 71.00, gain=0.130465

tree= 0, node=712, feature= 4, thr= 63.00, gain=0.039672

tree= 0, node=1424, feature= 5, thr= 93.00, gain=0.331846

tree= 0, node=2848, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2849, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1425, feature= 2, thr= 30.00, gain=0.009760

tree= 0, node=2850, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2851, feature= 0, thr= 20.00, gain=0.036360

tree= 0, node=5702, feature=15, thr= 3.00, gain=0.031345

tree= 0, node=11404, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=11405, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=5703, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=713, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=357, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=179, feature= 0, thr= 70.00, gain=0.120322

tree= 0, node=358, feature=14, thr= 23.00, gain=0.151530

tree= 0, node=716, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=717, feature= 3, thr= 99.00, gain=0.247256

tree= 0, node=1434, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1435, feature= 4, thr= 77.00, gain=0.301601

tree= 0, node=2870, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2871, feature= 0, thr= 8.00, gain=0.072104

tree= 0, node=5742, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=5743, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=359, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 45, feature=15, thr= 12.00, gain=0.092274

tree= 0, node= 90, feature=13, thr= 16.00, gain=0.225611

tree= 0, node=180, feature= 5, thr= 98.00, gain=0.097647

tree= 0, node=360, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=361, feature=11, thr= 10.00, gain=0.436558

tree= 0, node=722, feature= 8, thr= 60.00, gain=0.050617

tree= 0, node=1444, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1445, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=723, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=181, feature=13, thr= 31.00, gain=0.165427

tree= 0, node=362, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=363, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 91, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 23, feature= 0, thr= 1.00, gain=0.417227

tree= 0, node= 46, feature=13, thr= 15.00, gain=0.472160

tree= 0, node= 92, feature=13, thr= 2.00, gain=0.133470

tree= 0, node=184, feature=16, thr= 2.00, gain=0.402179

tree= 0, node=368, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=369, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=185, feature=10, thr= 97.00, gain=0.421988

tree= 0, node=370, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=371, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 93, feature=10, thr= 93.00, gain=0.029349

tree= 0, node=186, feature=13, thr= 20.00, gain=0.044856

tree= 0, node=372, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=373, feature=12, thr= 79.00, gain=0.010604

tree= 0, node=746, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=747, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=187, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 47, feature= 8, thr= 95.00, gain=0.079354

tree= 0, node= 94, feature= 3, thr= 96.00, gain=0.302018

tree= 0, node=188, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=189, feature= 3, thr= 99.00, gain=0.000934

tree= 0, node=378, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=379, feature= 5, thr= 81.00, gain=0.020662

tree= 0, node=758, feature= 3, thr=100.00, gain=0.000000

tree= 0, node=1516, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1517, feature= 3, thr=100.00, gain=0.000000

tree= 0, node=3034, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3035, feature= 0, thr= 40.00, gain=0.019495

tree= 0, node=6070, feature=10, thr= 98.00, gain=0.005292

tree= 0, node=12140, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=12141, feature= 1, thr= 95.00, gain=0.074370

tree= 0, node=24282, feature= 4, thr= 8.00, gain=0.131107

tree= 0, node=48564, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=48565, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=24283, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=6071, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=759, feature= 0, thr= 50.00, gain=0.010563

tree= 0, node=1518, feature=10, thr= 80.00, gain=0.023369

tree= 0, node=3036, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3037, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1519, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 95, feature=10, thr= 74.00, gain=0.166703

tree= 0, node=190, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=191, feature= 8, thr= 97.00, gain=0.001738

tree= 0, node=382, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=383, feature=11, thr= 30.00, gain=0.429462

tree= 0, node=766, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=767, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 3, feature=10, thr= 62.00, gain=0.325481

tree= 0, node= 6, feature= 8, thr= 21.00, gain=0.398568

tree= 0, node= 12, feature= 6, thr= 29.00, gain=0.211712

tree= 0, node= 24, feature= 5, thr= 47.00, gain=0.842839

tree= 0, node= 48, feature= 5, thr= 15.00, gain=0.050136

tree= 0, node= 96, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 97, feature=10, thr= 37.00, gain=0.668625

tree= 0, node=194, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=195, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 49, feature= 0, thr= 80.00, gain=0.647212

tree= 0, node= 98, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 99, feature=12, thr= 37.00, gain=0.013472

tree= 0, node=198, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=199, feature=11, thr= 15.00, gain=0.136059

tree= 0, node=398, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=399, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 25, feature=11, thr= 43.00, gain=0.285047

tree= 0, node= 50, feature= 5, thr= 51.00, gain=0.214850

tree= 0, node=100, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=101, feature= 1, thr= 98.00, gain=0.053760

tree= 0, node=202, feature= 6, thr= 62.00, gain=0.242094

tree= 0, node=404, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=405, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=203, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 51, feature= 7, thr= 90.00, gain=0.121915

tree= 0, node=102, feature= 6, thr= 67.00, gain=0.097281

tree= 0, node=204, feature=14, thr= 84.00, gain=0.628748

tree= 0, node=408, feature= 6, thr= 47.00, gain=0.045525

tree= 0, node=816, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=817, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=409, feature=13, thr= 57.00, gain=0.104807

tree= 0, node=818, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=819, feature= 5, thr= 55.00, gain=0.014839

tree= 0, node=1638, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1639, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=205, feature=12, thr= 45.00, gain=0.977795

tree= 0, node=410, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=411, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=103, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 13, feature=13, thr= 52.00, gain=0.311999

tree= 0, node= 26, feature=16, thr= 8.00, gain=0.711181

tree= 0, node= 52, feature= 5, thr= 87.00, gain=0.045105

tree= 0, node=104, feature= 4, thr= 65.00, gain=0.031366

tree= 0, node=208, feature= 0, thr= 29.00, gain=0.371232

tree= 0, node=416, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=417, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=209, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=105, feature= 4, thr= 35.00, gain=0.034449

tree= 0, node=210, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=211, feature= 3, thr= 95.00, gain=0.006248

tree= 0, node=422, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=423, feature= 1, thr= 94.00, gain=0.022612

tree= 0, node=846, feature= 3, thr= 96.00, gain=0.010952

tree= 0, node=1692, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1693, feature=11, thr= 25.00, gain=0.318835

tree= 0, node=3386, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3387, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=847, feature= 4, thr= 82.00, gain=0.041523

tree= 0, node=1694, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1695, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 53, feature= 2, thr= 41.00, gain=0.039240

tree= 0, node=106, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=107, feature=14, thr= 52.00, gain=0.263161

tree= 0, node=214, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=215, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 27, feature=11, thr= 41.00, gain=0.476290

tree= 0, node= 54, feature= 1, thr= 95.00, gain=0.033328

tree= 0, node=108, feature=11, thr= 29.00, gain=0.189127

tree= 0, node=216, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=217, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=109, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 55, feature= 7, thr= 38.00, gain=0.612780

tree= 0, node=110, feature= 4, thr= 17.00, gain=0.099380

tree= 0, node=220, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=221, feature=14, thr= 52.00, gain=0.754034

tree= 0, node=442, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=443, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=111, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 7, feature= 2, thr= 70.00, gain=0.128416

tree= 0, node= 14, feature=12, thr= 94.00, gain=0.103608

tree= 0, node= 28, feature= 2, thr= 12.00, gain=0.055686

tree= 0, node= 56, feature= 4, thr= 37.00, gain=0.347551

tree= 0, node=112, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=113, feature=10, thr= 92.00, gain=0.701766

tree= 0, node=226, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=227, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 57, feature=13, thr= 15.00, gain=0.417299

tree= 0, node=114, feature=14, thr= 1.00, gain=0.070890

tree= 0, node=228, feature= 6, thr= 56.00, gain=0.348732

tree= 0, node=456, feature=12, thr= 56.00, gain=0.488362

tree= 0, node=912, feature= 2, thr= 37.00, gain=0.051808

tree= 0, node=1824, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1825, feature= 8, thr= 67.00, gain=0.136661

tree= 0, node=3650, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3651, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=913, feature= 2, thr= 41.00, gain=0.132218

tree= 0, node=1826, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1827, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=457, feature= 1, thr= 88.00, gain=0.016038

tree= 0, node=914, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=915, feature= 2, thr= 58.00, gain=0.075897

tree= 0, node=1830, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1831, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=229, feature= 4, thr= 37.00, gain=0.489640

tree= 0, node=458, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=459, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=115, feature=12, thr= 69.00, gain=0.025176

tree= 0, node=230, feature= 3, thr= 96.00, gain=0.187194

tree= 0, node=460, feature=12, thr= 45.00, gain=0.028930

tree= 0, node=920, feature= 7, thr= 35.00, gain=0.930256

tree= 0, node=1840, feature= 0, thr= 28.00, gain=0.187176

tree= 0, node=3680, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3681, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1841, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=921, feature= 6, thr= 25.00, gain=0.325522

tree= 0, node=1842, feature= 1, thr= 98.00, gain=0.315765

tree= 0, node=3684, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3685, feature= 5, thr= 67.00, gain=0.113970

tree= 0, node=7370, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=7371, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1843, feature=12, thr= 54.00, gain=0.263477

tree= 0, node=3686, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3687, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=461, feature=11, thr= 40.00, gain=0.441621

tree= 0, node=922, feature= 0, thr= 35.00, gain=0.903003

tree= 0, node=1844, feature= 5, thr= 71.00, gain=0.121601

tree= 0, node=3688, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3689, feature= 4, thr= 98.00, gain=0.288147

tree= 0, node=7378, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=7379, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1845, feature=10, thr= 86.00, gain=0.080348

tree= 0, node=3690, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3691, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=923, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=231, feature= 0, thr= 50.00, gain=0.363294

tree= 0, node=462, feature= 1, thr= 88.00, gain=0.363645

tree= 0, node=924, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=925, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=463, feature=12, thr= 70.00, gain=0.041397

tree= 0, node=926, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=927, feature= 2, thr= 48.00, gain=0.034768

tree= 0, node=1854, feature= 5, thr= 64.00, gain=0.755942

tree= 0, node=3708, feature=16, thr= 7.00, gain=0.549911

tree= 0, node=7416, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=7417, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3709, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1855, feature= 9, thr= 17.00, gain=0.867629

tree= 0, node=3710, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3711, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 29, feature=15, thr= 50.00, gain=0.986862

tree= 0, node= 58, feature=12, thr= 97.00, gain=0.042692

tree= 0, node=116, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=117, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 59, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 15, feature= 2, thr= 86.00, gain=0.096457

tree= 0, node= 30, feature= 9, thr= 45.00, gain=0.736411

tree= 0, node= 60, feature=10, thr= 98.00, gain=0.082507

tree= 0, node=120, feature= 4, thr= 67.00, gain=0.862343

tree= 0, node=240, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=241, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=121, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 61, feature=14, thr= 39.00, gain=0.049476

tree= 0, node=122, feature=11, thr= 47.00, gain=0.107477

tree= 0, node=244, feature= 3, thr= 84.00, gain=0.194173

tree= 0, node=488, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=489, feature= 6, thr= 60.00, gain=0.397626

tree= 0, node=978, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=979, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=245, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=123, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 31, feature= 3, thr= 95.00, gain=0.459998

tree= 0, node= 62, feature= 8, thr= 27.00, gain=0.077989

tree= 0, node=124, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=125, feature=14, thr= 1.00, gain=0.025719

tree= 0, node=250, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=251, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 63, feature=15, thr= 16.00, gain=0.266300

tree= 0, node=126, feature= 8, thr= 68.00, gain=0.240548

tree= 0, node=252, feature=14, thr= 2.00, gain=0.264247

tree= 0, node=504, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=505, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=253, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=127, feature=-1, thr= -1.00, gain=0.000000

classification accuracy=0.7910

**dtree pendigits\_training pendigits\_test forest3 50**

tree= 0, node= 1, feature=15, thr= 25.00, gain=0.622315

tree= 0, node= 2, feature= 3, thr= 92.00, gain=0.506729

tree= 0, node= 4, feature= 6, thr= 56.00, gain=0.378750

tree= 0, node= 8, feature= 1, thr= 98.00, gain=0.629187

tree= 0, node= 16, feature=14, thr= 98.00, gain=0.376152

tree= 0, node= 32, feature=12, thr= 53.00, gain=0.073679

tree= 0, node= 64, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 65, feature=10, thr= 98.00, gain=0.027241

tree= 0, node=130, feature=13, thr= 12.00, gain=0.085105

tree= 0, node=260, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=261, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=131, feature= 7, thr= 70.00, gain=0.151097

tree= 0, node=262, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=263, feature=15, thr= 9.00, gain=0.350209

tree= 0, node=526, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=527, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 33, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 17, feature= 1, thr= 99.00, gain=0.040999

tree= 0, node= 34, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 35, feature= 9, thr= 13.00, gain=0.818288

tree= 0, node= 70, feature= 2, thr= 21.00, gain=0.035805

tree= 0, node=140, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=141, feature= 3, thr= 77.00, gain=0.024528

tree= 0, node=282, feature=15, thr= 1.00, gain=0.221732

tree= 0, node=564, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=565, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=283, feature=10, thr= 34.00, gain=0.038672

tree= 0, node=566, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=567, feature= 6, thr= 1.00, gain=0.004765

tree= 0, node=1134, feature=11, thr= 26.00, gain=0.033715

tree= 0, node=2268, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2269, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1135, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 71, feature= 1, thr= 99.00, gain=0.000000

tree= 0, node=142, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=143, feature= 6, thr= 23.00, gain=0.037897

tree= 0, node=286, feature=13, thr= 17.00, gain=0.349784

tree= 0, node=572, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=573, feature= 4, thr= 23.00, gain=0.133414

tree= 0, node=1146, feature=15, thr= 1.00, gain=0.049384

tree= 0, node=2292, feature=14, thr= 19.00, gain=0.049614

tree= 0, node=4584, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=4585, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2293, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1147, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=287, feature=13, thr= 16.00, gain=0.417665

tree= 0, node=574, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=575, feature= 1, thr= 99.00, gain=0.000000

tree= 0, node=1150, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1151, feature=12, thr= 64.00, gain=0.038440

tree= 0, node=2302, feature= 2, thr= 48.00, gain=0.028576

tree= 0, node=4604, feature=14, thr= 39.00, gain=0.051130

tree= 0, node=9208, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=9209, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=4605, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2303, feature=12, thr= 77.00, gain=0.008593

tree= 0, node=4606, feature= 6, thr= 52.00, gain=0.052314

tree= 0, node=9212, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=9213, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=4607, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 9, feature= 1, thr= 86.00, gain=0.730088

tree= 0, node= 18, feature= 3, thr= 35.00, gain=0.086790

tree= 0, node= 36, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 37, feature= 7, thr= 80.00, gain=0.104428

tree= 0, node= 74, feature=13, thr= 39.00, gain=0.407077

tree= 0, node=148, feature= 7, thr= 75.00, gain=0.105187

tree= 0, node=296, feature=12, thr= 14.00, gain=0.134118

tree= 0, node=592, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=593, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=297, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=149, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 75, feature=16, thr= 2.00, gain=0.446481

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tree= 0, node=151, feature=11, thr= 21.00, gain=0.060961

tree= 0, node=302, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=303, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 19, feature= 0, thr= 68.00, gain=0.246797

tree= 0, node= 38, feature=11, thr= 50.00, gain=0.173383

tree= 0, node= 76, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 77, feature=12, thr= 23.00, gain=0.105212

tree= 0, node=154, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=155, feature= 7, thr= 94.00, gain=0.289079

tree= 0, node=310, feature=15, thr= 1.00, gain=0.041126

tree= 0, node=620, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=621, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=311, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 39, feature= 6, thr= 90.00, gain=0.108483

tree= 0, node= 78, feature=13, thr= 35.00, gain=0.659870

tree= 0, node=156, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=157, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 79, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 5, feature= 2, thr= 54.00, gain=0.148137

tree= 0, node= 10, feature= 4, thr= 27.00, gain=0.532954

tree= 0, node= 20, feature= 5, thr= 71.00, gain=0.339480

tree= 0, node= 40, feature=11, thr= 35.00, gain=0.720364

tree= 0, node= 80, feature= 5, thr= 66.00, gain=0.172855

tree= 0, node=160, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=161, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 81, feature=13, thr= 10.00, gain=0.317908

tree= 0, node=162, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=163, feature= 1, thr= 99.00, gain=0.039360

tree= 0, node=326, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=327, feature=12, thr= 22.00, gain=0.137099

tree= 0, node=654, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=655, feature=11, thr= 62.00, gain=0.049098

tree= 0, node=1310, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1311, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 41, feature= 0, thr= 58.00, gain=0.496627

tree= 0, node= 82, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 83, feature=11, thr= 30.00, gain=0.688938

tree= 0, node=166, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=167, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 21, feature=12, thr= 45.00, gain=0.069170

tree= 0, node= 42, feature= 4, thr= 73.00, gain=0.349235

tree= 0, node= 84, feature=12, thr= 37.00, gain=0.228975

tree= 0, node=168, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=169, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 85, feature= 4, thr= 83.00, gain=0.096549

tree= 0, node=170, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=171, feature=12, thr= 33.00, gain=0.331379

tree= 0, node=342, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=343, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 43, feature= 3, thr= 99.00, gain=0.072850

tree= 0, node= 86, feature= 6, thr= 78.00, gain=0.406315

tree= 0, node=172, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=173, feature= 8, thr= 77.00, gain=0.474651

tree= 0, node=346, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=347, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 87, feature= 8, thr= 45.00, gain=0.715063

tree= 0, node=174, feature= 4, thr= 97.00, gain=0.102616

tree= 0, node=348, feature= 8, thr= 19.00, gain=0.054524

tree= 0, node=696, feature= 7, thr= 24.00, gain=0.015977

tree= 0, node=1392, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1393, feature= 2, thr= 22.00, gain=0.022939

tree= 0, node=2786, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2787, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=697, feature= 0, thr= 4.00, gain=0.033846

tree= 0, node=1394, feature= 0, thr= 1.00, gain=0.005966

tree= 0, node=2788, feature=14, thr= 53.00, gain=0.095017

tree= 0, node=5576, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=5577, feature=16, thr= 1.00, gain=0.000000

tree= 0, node=11154, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=11155, feature= 4, thr= 47.00, gain=0.095398

tree= 0, node=22310, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=22311, feature=13, thr= 18.00, gain=0.054972

tree= 0, node=44622, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=44623, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2789, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1395, feature=14, thr= 1.00, gain=0.193667

tree= 0, node=2790, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2791, feature=14, thr=100.00, gain=0.000000

tree= 0, node=5582, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=5583, feature=12, thr= 51.00, gain=0.046117

tree= 0, node=11166, feature=12, thr= 48.00, gain=0.024769

tree= 0, node=22332, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=22333, feature= 4, thr= 53.00, gain=0.535813

tree= 0, node=44666, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=44667, feature=16, thr= 1.00, gain=0.000000

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tree= 0, node=89335, feature= 3, thr= 99.00, gain=0.000000

tree= 0, node=178670, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=178671, feature= 6, thr= 51.00, gain=0.079087

tree= 0, node=357342, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=357343, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node=349, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=175, feature=14, thr= 37.00, gain=0.416974

tree= 0, node=350, feature= 7, thr= 79.00, gain=0.486581

tree= 0, node=700, feature= 9, thr= 15.00, gain=0.068355

tree= 0, node=1400, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1401, feature=14, thr= 1.00, gain=0.006414

tree= 0, node=2802, feature= 6, thr= 76.00, gain=0.035986

tree= 0, node=5604, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=5605, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node=351, feature= 8, thr= 64.00, gain=0.476596

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tree= 0, node=703, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 11, feature= 4, thr= 54.00, gain=0.501149

tree= 0, node= 22, feature= 0, thr= 96.00, gain=0.125929

tree= 0, node= 44, feature= 2, thr= 64.00, gain=0.121883

tree= 0, node= 88, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 89, feature= 7, thr= 49.00, gain=0.419295

tree= 0, node=178, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=179, feature=12, thr= 1.00, gain=0.088072

tree= 0, node=358, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=359, feature= 4, thr= 43.00, gain=0.094120

tree= 0, node=718, feature= 8, thr= 74.00, gain=0.296582

tree= 0, node=1436, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1437, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node= 91, feature= 8, thr= 75.00, gain=0.372963

tree= 0, node=182, feature= 2, thr= 73.00, gain=0.125929

tree= 0, node=364, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=365, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=183, feature= 3, thr= 99.00, gain=0.047594

tree= 0, node=366, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=367, feature=14, thr= 1.00, gain=0.090618

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tree= 0, node=1468, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1469, feature= 6, thr= 68.00, gain=0.330710

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tree= 0, node= 23, feature= 0, thr= 78.00, gain=0.156957

tree= 0, node= 46, feature= 0, thr= 6.00, gain=0.046628

tree= 0, node= 92, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node=186, feature=15, thr= 2.00, gain=0.137852

tree= 0, node=372, feature=12, thr= 25.00, gain=0.207972

tree= 0, node=744, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=745, feature= 8, thr= 62.00, gain=0.436385

tree= 0, node=1490, feature= 8, thr= 47.00, gain=0.242628

tree= 0, node=2980, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2981, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1491, feature= 4, thr= 83.00, gain=0.086518

tree= 0, node=2982, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2983, feature= 3, thr= 96.00, gain=0.063527

tree= 0, node=5966, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node=11934, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node=373, feature= 2, thr= 97.00, gain=0.197655

tree= 0, node=746, feature= 6, thr= 35.00, gain=0.159488

tree= 0, node=1492, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node=23890, feature= 4, thr= 59.00, gain=0.111910

tree= 0, node=47780, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node=23891, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node=747, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=187, feature= 6, thr= 40.00, gain=0.066576

tree= 0, node=374, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=375, feature=16, thr= 2.00, gain=0.812878

tree= 0, node=750, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=751, feature= 9, thr= 1.00, gain=0.032236

tree= 0, node=1502, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1503, feature= 2, thr= 56.00, gain=0.021702

tree= 0, node=3006, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3007, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node= 6, feature= 3, thr= 73.00, gain=0.096435

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tree= 0, node= 25, feature= 0, thr= 56.00, gain=0.084111

tree= 0, node= 50, feature=14, thr= 60.00, gain=0.805214

tree= 0, node=100, feature= 7, thr= 2.00, gain=0.048934

tree= 0, node=200, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=201, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=101, feature= 5, thr= 26.00, gain=0.017192

tree= 0, node=202, feature= 8, thr= 26.00, gain=0.121153

tree= 0, node=404, feature= 1, thr= 80.00, gain=0.015281

tree= 0, node=808, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=809, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=405, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=203, feature=13, thr= 98.00, gain=0.004706

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tree= 0, node=814, feature=15, thr= 99.00, gain=0.010542

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tree= 0, node= 51, feature=14, thr= 72.00, gain=0.629249

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tree= 0, node=103, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 13, feature= 3, thr= 86.00, gain=0.103433

tree= 0, node= 26, feature=11, thr= 36.00, gain=0.244394

tree= 0, node= 52, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 53, feature= 3, thr= 79.00, gain=0.038684

tree= 0, node=106, feature= 5, thr= 36.00, gain=0.313667

tree= 0, node=212, feature=13, thr= 96.00, gain=0.019000

tree= 0, node=424, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node=213, feature= 3, thr= 75.00, gain=0.078005

tree= 0, node=426, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=427, feature= 6, thr= 31.00, gain=0.623830

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tree= 0, node=855, feature=-1, thr= -1.00, gain=0.000000

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tree= 0, node= 27, feature= 8, thr= 39.00, gain=0.942683

tree= 0, node= 54, feature= 7, thr= 5.00, gain=0.106168

tree= 0, node=108, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=109, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 55, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 7, feature= 7, thr= 33.00, gain=0.234347

tree= 0, node= 14, feature=14, thr= 70.00, gain=0.595213

tree= 0, node= 28, feature= 5, thr= 3.00, gain=0.563559

tree= 0, node= 56, feature=16, thr= 1.00, gain=0.591673

tree= 0, node=112, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=113, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 57, feature=11, thr= 24.00, gain=0.419457

tree= 0, node=114, feature= 3, thr= 98.00, gain=0.152239

tree= 0, node=228, feature= 3, thr= 92.00, gain=0.019233

tree= 0, node=456, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=457, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=229, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=115, feature= 2, thr= 11.00, gain=0.524842

tree= 0, node=230, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=231, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 29, feature= 0, thr= 49.00, gain=0.722386

tree= 0, node= 58, feature=10, thr= 34.00, gain=0.283779

tree= 0, node=116, feature= 5, thr= 55.00, gain=0.083188

tree= 0, node=232, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=233, feature= 9, thr= 0.00, gain=0.000000

tree= 0, node=466, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=467, feature=10, thr= 1.00, gain=0.029566

tree= 0, node=934, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=935, feature=16, thr= 6.00, gain=0.821813

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tree= 0, node= 59, feature=14, thr= 91.00, gain=0.201214

tree= 0, node=118, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=119, feature= 1, thr= 91.00, gain=0.138531

tree= 0, node=238, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=239, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 15, feature= 6, thr= 50.00, gain=0.370306

tree= 0, node= 30, feature= 6, thr= 21.00, gain=0.354079

tree= 0, node= 60, feature= 0, thr= 80.00, gain=0.692824

tree= 0, node=120, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=121, feature=12, thr= 50.00, gain=0.158270

tree= 0, node=242, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=243, feature= 6, thr= 1.00, gain=0.026882

tree= 0, node=486, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=487, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 61, feature=11, thr= 11.00, gain=0.332797

tree= 0, node=122, feature=11, thr= 8.00, gain=0.070670

tree= 0, node=244, feature= 2, thr= 72.00, gain=0.106818

tree= 0, node=488, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=489, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=245, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=123, feature= 9, thr= 1.00, gain=0.466417

tree= 0, node=246, feature= 3, thr= 98.00, gain=0.034871

tree= 0, node=492, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=493, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=247, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 31, feature= 9, thr= 58.00, gain=0.279722

tree= 0, node= 62, feature=12, thr= 21.00, gain=0.041790

tree= 0, node=124, feature=12, thr= 16.00, gain=0.046762

tree= 0, node=248, feature=10, thr= 55.00, gain=0.064106

tree= 0, node=496, feature= 6, thr= 99.00, gain=0.094019

tree= 0, node=992, feature=10, thr= 4.00, gain=0.016043

tree= 0, node=1984, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1985, feature=16, thr= 7.00, gain=0.000000

tree= 0, node=3970, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=3971, feature= 1, thr= 77.00, gain=0.243254

tree= 0, node=7942, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=7943, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=993, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=497, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=249, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=125, feature= 3, thr= 82.00, gain=0.071258

tree= 0, node=250, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=251, feature= 4, thr= 39.00, gain=0.346803

tree= 0, node=502, feature=14, thr= 95.00, gain=0.030383

tree= 0, node=1004, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1005, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=503, feature=11, thr= 21.00, gain=0.033813

tree= 0, node=1006, feature=16, thr= 4.00, gain=0.202085

tree= 0, node=2012, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2013, feature= 8, thr= 45.00, gain=0.080668

tree= 0, node=4026, feature= 1, thr= 72.00, gain=0.408919

tree= 0, node=8052, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=8053, feature= 4, thr= 97.00, gain=0.166335

tree= 0, node=16106, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=16107, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=4027, feature= 3, thr= 85.00, gain=0.019757

tree= 0, node=8054, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=8055, feature= 7, thr= 61.00, gain=0.008295

tree= 0, node=16110, feature= 5, thr= 94.00, gain=0.014817

tree= 0, node=32220, feature=16, thr= 7.00, gain=0.000000

tree= 0, node=64440, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=64441, feature=10, thr= 62.00, gain=0.078655

tree= 0, node=128882, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=128883, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=32221, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=16111, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=1007, feature=13, thr= 65.00, gain=0.086504

tree= 0, node=2014, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node=2015, feature=-1, thr= -1.00, gain=0.000000

tree= 0, node= 63, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 1, feature= 3, thr= 92.00, gain=0.436753

tree= 1, node= 2, feature= 8, thr= 52.00, gain=0.514695

tree= 1, node= 4, feature= 4, thr= 35.00, gain=0.522611

tree= 1, node= 8, feature=12, thr= 80.00, gain=0.203857

tree= 1, node= 16, feature= 1, thr= 97.00, gain=0.279086

tree= 1, node= 32, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 33, feature=14, thr= 45.00, gain=0.250130

tree= 1, node= 66, feature= 7, thr= 45.00, gain=0.120286

tree= 1, node=132, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=133, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 67, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 17, feature= 1, thr= 98.00, gain=0.509272

tree= 1, node= 34, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 35, feature=10, thr= 96.00, gain=0.095665

tree= 1, node= 70, feature=13, thr= 40.00, gain=0.589047

tree= 1, node=140, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=141, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 71, feature= 3, thr= 78.00, gain=0.095151

tree= 1, node=142, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=143, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 9, feature= 7, thr= 27.00, gain=0.519029

tree= 1, node= 18, feature=14, thr= 96.00, gain=0.849149

tree= 1, node= 36, feature= 4, thr= 41.00, gain=0.106686

tree= 1, node= 72, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 73, feature= 6, thr= 72.00, gain=0.054331

tree= 1, node=146, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=147, feature=16, thr= 6.00, gain=0.472995

tree= 1, node=294, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=295, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 37, feature= 8, thr= 38.00, gain=0.028188

tree= 1, node= 74, feature= 8, thr= 3.00, gain=0.010184

tree= 1, node=148, feature= 8, thr= 1.00, gain=0.002142

tree= 1, node=296, feature=16, thr= 6.00, gain=0.078543

tree= 1, node=592, feature=12, thr= 64.00, gain=0.044481

tree= 1, node=1184, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=1185, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=297, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=149, feature= 7, thr= 10.00, gain=0.041800

tree= 1, node=298, feature= 5, thr= 55.00, gain=0.031212

tree= 1, node=596, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=597, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node= 19, feature=15, thr= 9.00, gain=0.842380

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tree= 1, node= 76, feature= 0, thr= 9.00, gain=0.035691

tree= 1, node=152, feature= 3, thr= 80.00, gain=0.643432

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tree= 1, node=305, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=153, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=154, feature= 7, thr= 61.00, gain=0.299072

tree= 1, node=308, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=309, feature=10, thr= 21.00, gain=0.148549

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tree= 1, node=619, feature=11, thr= 32.00, gain=0.086504

tree= 1, node=1238, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=1239, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node= 78, feature=11, thr= 19.00, gain=0.181519

tree= 1, node=156, feature= 3, thr= 77.00, gain=0.914901

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tree= 1, node=313, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node= 5, feature=14, thr= 39.00, gain=0.305766

tree= 1, node= 10, feature= 1, thr= 98.00, gain=0.405695

tree= 1, node= 20, feature=16, thr= 1.00, gain=0.993244

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tree= 1, node= 41, feature= 7, thr= 33.00, gain=0.225092

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tree= 1, node= 83, feature=12, thr= 54.00, gain=0.308287

tree= 1, node=166, feature= 2, thr= 49.00, gain=0.072261

tree= 1, node=332, feature=14, thr= 4.00, gain=0.199903

tree= 1, node=664, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=665, feature= 3, thr= 61.00, gain=0.057068

tree= 1, node=1330, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=1331, feature=12, thr= 36.00, gain=0.026741

tree= 1, node=2662, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=2663, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=666, feature= 2, thr= 81.00, gain=0.167543

tree= 1, node=1332, feature= 0, thr= 49.00, gain=0.438401

tree= 1, node=2664, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=1343, feature= 9, thr= 68.00, gain=0.049565

tree= 1, node=2686, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=2687, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=168, feature=15, thr= 1.00, gain=0.304505

tree= 1, node=336, feature=11, thr= 30.00, gain=0.116115

tree= 1, node=672, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=673, feature=12, thr= 17.00, gain=0.050907

tree= 1, node=1346, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=1347, feature=12, thr= 47.00, gain=0.009966

tree= 1, node=2694, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=2695, feature= 7, thr= 24.00, gain=0.135036

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tree= 1, node=169, feature= 4, thr= 45.00, gain=0.665691

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tree= 1, node=1355, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node= 43, feature=11, thr= 38.00, gain=0.263096

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tree= 1, node= 11, feature=16, thr= 3.00, gain=0.988154

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tree= 1, node= 90, feature= 0, thr= 29.00, gain=0.027374

tree= 1, node=180, feature= 8, thr= 60.00, gain=0.080484

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tree= 1, node= 98, feature= 8, thr= 49.00, gain=0.261948

tree= 1, node=196, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=398, feature=14, thr= 29.00, gain=0.187660

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tree= 1, node=797, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node= 50, feature= 1, thr= 85.00, gain=0.304388

tree= 1, node=100, feature=11, thr= 19.00, gain=0.602593

tree= 1, node=200, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=201, feature= 2, thr= 72.00, gain=0.456289

tree= 1, node=402, feature=11, thr= 28.00, gain=0.162221

tree= 1, node=804, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=805, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=101, feature=12, thr= 24.00, gain=0.383185

tree= 1, node=202, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=203, feature=10, thr= 95.00, gain=0.056384

tree= 1, node=406, feature=10, thr= 55.00, gain=0.123473

tree= 1, node=812, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=813, feature= 9, thr= 41.00, gain=0.154260

tree= 1, node=1626, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=1627, feature= 7, thr= 72.00, gain=0.339794

tree= 1, node=3254, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=3255, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node= 51, feature= 0, thr= 39.00, gain=0.078193

tree= 1, node=102, feature= 3, thr= 98.00, gain=0.042400

tree= 1, node=204, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=205, feature=14, thr= 16.00, gain=0.064506

tree= 1, node=410, feature= 9, thr= 10.00, gain=0.158651

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tree= 1, node=821, feature= 4, thr= 76.00, gain=0.016677

tree= 1, node=1642, feature= 2, thr= 30.00, gain=0.096361

tree= 1, node=3284, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node= 26, feature= 5, thr= 76.00, gain=0.739417

tree= 1, node= 52, feature= 7, thr= 23.00, gain=0.784501

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tree= 1, node=105, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 53, feature=16, thr= 4.00, gain=0.804252

tree= 1, node=106, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=107, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 27, feature= 6, thr= 37.00, gain=0.533390

tree= 1, node= 54, feature= 2, thr= 75.00, gain=0.231875

tree= 1, node=108, feature= 5, thr= 77.00, gain=0.765188

tree= 1, node=216, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=217, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=109, feature=15, thr= 3.00, gain=0.748197

tree= 1, node=218, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node= 7, feature= 3, thr= 98.00, gain=0.068945

tree= 1, node= 14, feature= 0, thr= 37.00, gain=0.584630

tree= 1, node= 28, feature= 2, thr= 43.00, gain=0.324591

tree= 1, node= 56, feature= 1, thr= 96.00, gain=0.715663

tree= 1, node=112, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=113, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 57, feature=10, thr= 68.00, gain=0.202158

tree= 1, node=114, feature= 8, thr= 42.00, gain=0.150172

tree= 1, node=228, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=229, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=115, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 29, feature= 2, thr= 19.00, gain=0.206446

tree= 1, node= 58, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 59, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 15, feature= 5, thr= 77.00, gain=0.083081

tree= 1, node= 30, feature=12, thr= 49.00, gain=0.325559

tree= 1, node= 60, feature= 0, thr= 43.00, gain=0.796619

tree= 1, node=120, feature= 5, thr= 69.00, gain=0.022376

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tree= 1, node=241, feature= 9, thr= 10.00, gain=0.122993

tree= 1, node=482, feature= 0, thr= 16.00, gain=0.090419

tree= 1, node=964, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=965, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=121, feature=10, thr= 39.00, gain=0.117595

tree= 1, node=242, feature=11, thr= 13.00, gain=0.115448

tree= 1, node=484, feature= 0, thr= 73.00, gain=0.340957

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tree= 1, node=244, feature= 7, thr= 54.00, gain=0.135643

tree= 1, node=488, feature=12, thr= 51.00, gain=0.085445

tree= 1, node=976, feature= 0, thr= 13.00, gain=0.169457

tree= 1, node=1952, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=1953, feature= 8, thr= 39.00, gain=0.200310

tree= 1, node=3906, feature= 6, thr= 55.00, gain=0.082216

tree= 1, node=7812, feature=14, thr=100.00, gain=0.000000

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tree= 1, node=1954, feature= 4, thr= 1.00, gain=0.164171

tree= 1, node=3908, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=1955, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=489, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=123, feature= 5, thr= 71.00, gain=0.042100

tree= 1, node=246, feature=12, thr= 67.00, gain=0.542074

tree= 1, node=492, feature= 6, thr= 67.00, gain=0.270310

tree= 1, node=984, feature=15, thr= 69.00, gain=0.796270

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tree= 1, node=493, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=247, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 31, feature= 9, thr= 10.00, gain=0.235235

tree= 1, node= 62, feature= 6, thr= 53.00, gain=0.345355

tree= 1, node=124, feature= 0, thr= 33.00, gain=0.918974

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tree= 1, node=249, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=125, feature=11, thr= 16.00, gain=0.069217

tree= 1, node=250, feature=11, thr= 12.00, gain=0.035720

tree= 1, node=500, feature=12, thr= 47.00, gain=0.209299

tree= 1, node=1000, feature=15, thr= 4.00, gain=0.302174

tree= 1, node=2000, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=2001, feature=13, thr= 44.00, gain=0.066976

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tree= 1, node=4003, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=1001, feature= 1, thr= 81.00, gain=0.604936

tree= 1, node=2002, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=251, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node= 63, feature= 5, thr= 89.00, gain=0.078492

tree= 1, node=126, feature= 6, thr= 62.00, gain=0.252845

tree= 1, node=252, feature=15, thr= 26.00, gain=0.118097

tree= 1, node=504, feature= 2, thr= 40.00, gain=0.202122

tree= 1, node=1008, feature= 0, thr= 37.00, gain=0.130163

tree= 1, node=2016, feature= 9, thr= 37.00, gain=0.193823

tree= 1, node=4032, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=2017, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=1009, feature=16, thr= 3.00, gain=0.894107

tree= 1, node=2018, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=2019, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=505, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=253, feature=14, thr= 93.00, gain=0.243358

tree= 1, node=506, feature=11, thr= 1.00, gain=0.826746

tree= 1, node=1012, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=1013, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=1015, feature= 1, thr= 84.00, gain=0.204882

tree= 1, node=2030, feature= 6, thr= 74.00, gain=0.029489

tree= 1, node=4060, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=4061, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=2031, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=127, feature=10, thr= 41.00, gain=0.378330

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tree= 1, node=508, feature= 3, thr= 99.00, gain=0.001626

tree= 1, node=1016, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=1017, feature=13, thr= 4.00, gain=0.021913

tree= 1, node=2034, feature= 3, thr= 99.00, gain=0.000000

tree= 1, node=4068, feature=-1, thr= -1.00, gain=0.000000

tree= 1, node=4069, feature= 7, thr= 60.00, gain=0.176211

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tree= 1, node=16279, feature=-1, thr= -1.00, gain=0.000000

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tree= 1, node=510, feature= 9, thr= 35.00, gain=0.088180

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tree= 2, node=288, feature=11, thr= 13.00, gain=0.119660

tree= 2, node=576, feature= 6, thr= 73.00, gain=0.082255

tree= 2, node=1152, feature=16, thr= 1.00, gain=0.000000

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tree= 2, node=325, feature=-1, thr= -1.00, gain=0.000000

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tree= 2, node=169, feature= 7, thr= 31.00, gain=0.433189

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tree= 2, node=339, feature=-1, thr= -1.00, gain=0.000000

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tree= 2, node=170, feature=16, thr= 7.00, gain=0.198235

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tree= 2, node=348, feature=12, thr= 51.00, gain=0.007115

tree= 2, node=696, feature= 8, thr= 12.00, gain=0.006046

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tree= 2, node=697, feature= 4, thr= 32.00, gain=0.055457

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tree= 2, node= 44, feature= 4, thr= 31.00, gain=0.827075

tree= 2, node= 88, feature= 7, thr= 53.00, gain=0.127419

tree= 2, node=176, feature= 4, thr= 8.00, gain=0.037628

tree= 2, node=352, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=353, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=177, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 89, feature=14, thr= 27.00, gain=0.271582

tree= 2, node=178, feature=11, thr= 51.00, gain=0.733358

tree= 2, node=356, feature=10, thr= 94.00, gain=0.091233

tree= 2, node=712, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=713, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=357, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=179, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 45, feature= 6, thr= 44.00, gain=0.223682

tree= 2, node= 90, feature= 5, thr= 39.00, gain=0.454771

tree= 2, node=180, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=181, feature=10, thr= 75.00, gain=0.146672

tree= 2, node=362, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=363, feature=11, thr= 23.00, gain=0.677928

tree= 2, node=726, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=727, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 91, feature= 2, thr= 25.00, gain=0.066577

tree= 2, node=182, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=183, feature= 8, thr= 47.00, gain=0.236121

tree= 2, node=366, feature= 2, thr= 38.00, gain=0.034144

tree= 2, node=732, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=733, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=367, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 23, feature=13, thr= 17.00, gain=0.422886

tree= 2, node= 46, feature= 2, thr= 92.00, gain=0.386432

tree= 2, node= 92, feature=11, thr= 1.00, gain=0.199598

tree= 2, node=184, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=185, feature= 4, thr= 82.00, gain=0.084648

tree= 2, node=370, feature= 2, thr= 69.00, gain=0.206619

tree= 2, node=740, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=741, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=371, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 93, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 47, feature= 1, thr= 98.00, gain=0.464249

tree= 2, node= 94, feature= 9, thr= 76.00, gain=0.314757

tree= 2, node=188, feature=16, thr= 5.00, gain=0.601143

tree= 2, node=376, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=377, feature= 2, thr= 55.00, gain=0.165444

tree= 2, node=754, feature= 7, thr= 61.00, gain=0.038942

tree= 2, node=1508, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=1509, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=755, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=189, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 95, feature= 3, thr= 95.00, gain=0.160831

tree= 2, node=190, feature= 1, thr= 99.00, gain=0.000000

tree= 2, node=380, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=381, feature=12, thr= 63.00, gain=0.048912

tree= 2, node=762, feature= 0, thr= 45.00, gain=0.096171

tree= 2, node=1524, feature=11, thr= 43.00, gain=0.223526

tree= 2, node=3048, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=3049, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=1525, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=763, feature= 3, thr= 92.00, gain=0.013450

tree= 2, node=1526, feature=13, thr= 55.00, gain=0.033270

tree= 2, node=3052, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=3053, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=1527, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=191, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 3, feature=13, thr= 45.00, gain=0.483835

tree= 2, node= 6, feature= 2, thr= 66.00, gain=0.174729

tree= 2, node= 12, feature= 4, thr= 37.00, gain=0.279297

tree= 2, node= 24, feature=11, thr= 39.00, gain=0.608196

tree= 2, node= 48, feature= 6, thr= 30.00, gain=0.504891

tree= 2, node= 96, feature= 0, thr= 87.00, gain=0.091615

tree= 2, node=192, feature= 3, thr= 99.00, gain=0.059465

tree= 2, node=384, feature= 6, thr= 1.00, gain=0.085188

tree= 2, node=768, feature= 5, thr= 63.00, gain=0.112815

tree= 2, node=1536, feature= 3, thr= 88.00, gain=0.032536

tree= 2, node=3072, feature= 0, thr= 82.00, gain=0.035352

tree= 2, node=6144, feature=15, thr= 1.00, gain=0.655024

tree= 2, node=12288, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=12289, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=6145, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=3073, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=1537, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=769, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=385, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=193, feature= 7, thr= 42.00, gain=0.386692

tree= 2, node=386, feature= 0, thr= 94.00, gain=0.010074

tree= 2, node=772, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=773, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=387, feature= 5, thr= 79.00, gain=0.375494

tree= 2, node=774, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=775, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 97, feature= 1, thr= 90.00, gain=0.428305

tree= 2, node=194, feature= 0, thr= 77.00, gain=0.038220

tree= 2, node=388, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=389, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=195, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 49, feature= 8, thr= 72.00, gain=0.073453

tree= 2, node= 98, feature= 5, thr= 71.00, gain=0.386201

tree= 2, node=196, feature=13, thr= 40.00, gain=0.138227

tree= 2, node=392, feature= 8, thr= 67.00, gain=0.052950

tree= 2, node=784, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=785, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=393, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=197, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 99, feature= 0, thr= 79.00, gain=0.392129

tree= 2, node=198, feature= 9, thr= 73.00, gain=0.293660

tree= 2, node=396, feature=11, thr= 48.00, gain=0.024351

tree= 2, node=792, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=793, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=397, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=199, feature=14, thr= 82.00, gain=0.044497

tree= 2, node=398, feature= 8, thr= 83.00, gain=0.087677

tree= 2, node=796, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=797, feature= 8, thr= 96.00, gain=0.033570

tree= 2, node=1594, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=1595, feature=14, thr= 1.00, gain=0.068796

tree= 2, node=3190, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=3191, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=399, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 25, feature= 8, thr= 66.00, gain=0.460010

tree= 2, node= 50, feature= 8, thr= 54.00, gain=0.119545

tree= 2, node=100, feature= 5, thr= 82.00, gain=0.235666

tree= 2, node=200, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=201, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=101, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 51, feature=11, thr= 32.00, gain=0.107571

tree= 2, node=102, feature= 9, thr= 1.00, gain=0.273769

tree= 2, node=204, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=205, feature= 4, thr= 84.00, gain=0.474252

tree= 2, node=410, feature= 6, thr= 66.00, gain=0.046632

tree= 2, node=820, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=821, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=411, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=103, feature= 6, thr= 89.00, gain=0.020380

tree= 2, node=206, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=207, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 13, feature=14, thr= 39.00, gain=0.456689

tree= 2, node= 26, feature= 9, thr= 27.00, gain=0.762800

tree= 2, node= 52, feature=14, thr= 1.00, gain=0.063289

tree= 2, node=104, feature= 7, thr= 47.00, gain=0.387889

tree= 2, node=208, feature=11, thr= 8.00, gain=0.029738

tree= 2, node=416, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=417, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=209, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=105, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 53, feature= 3, thr= 92.00, gain=0.191585

tree= 2, node=106, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=107, feature= 7, thr= 63.00, gain=0.275541

tree= 2, node=214, feature= 8, thr= 56.00, gain=0.215341

tree= 2, node=428, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=429, feature= 3, thr= 94.00, gain=0.013477

tree= 2, node=858, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=859, feature= 6, thr= 49.00, gain=0.482198

tree= 2, node=1718, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=1719, feature=14, thr= 0.00, gain=0.000000

tree= 2, node=3438, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=3439, feature=14, thr= 0.00, gain=0.000000

tree= 2, node=6878, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=6879, feature=16, thr= 4.00, gain=0.611552

tree= 2, node=13758, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=13759, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=215, feature=10, thr= 59.00, gain=0.297465

tree= 2, node=430, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=431, feature=16, thr= 6.00, gain=0.988111

tree= 2, node=862, feature= 9, thr= 48.00, gain=0.251198

tree= 2, node=1724, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=1725, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=863, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 27, feature=12, thr= 64.00, gain=0.943134

tree= 2, node= 54, feature=16, thr= 3.00, gain=0.878674

tree= 2, node=108, feature=13, thr= 11.00, gain=0.150762

tree= 2, node=216, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=217, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=109, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 55, feature=16, thr= 5.00, gain=0.386019

tree= 2, node=110, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=111, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 7, feature= 6, thr= 43.00, gain=0.289054

tree= 2, node= 14, feature= 5, thr= 47.00, gain=0.136896

tree= 2, node= 28, feature= 2, thr= 31.00, gain=0.220298

tree= 2, node= 56, feature= 7, thr= 3.00, gain=0.089166

tree= 2, node=112, feature=10, thr= 74.00, gain=0.741157

tree= 2, node=224, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=225, feature=12, thr= 51.00, gain=0.067360

tree= 2, node=450, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=451, feature= 6, thr= 39.00, gain=0.026987

tree= 2, node=902, feature= 1, thr= 84.00, gain=0.051407

tree= 2, node=1804, feature=-1, thr= -1.00, gain=0.000000

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tree= 2, node=113, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 57, feature=12, thr= 54.00, gain=0.631874

tree= 2, node=114, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=115, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 29, feature= 8, thr= 19.00, gain=0.243609

tree= 2, node= 58, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 59, feature= 6, thr= 26.00, gain=0.404107

tree= 2, node=118, feature=10, thr= 17.00, gain=0.237508

tree= 2, node=236, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=237, feature=11, thr= 33.00, gain=0.138070

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tree= 2, node=948, feature=-1, thr= -1.00, gain=0.000000

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tree= 2, node= 15, feature= 0, thr= 75.00, gain=0.115187

tree= 2, node= 30, feature=12, thr= 84.00, gain=0.253840

tree= 2, node= 60, feature= 9, thr= 21.00, gain=0.762994

tree= 2, node=120, feature=11, thr= 39.00, gain=0.525324

tree= 2, node=240, feature= 8, thr= 33.00, gain=0.063438

tree= 2, node=480, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=481, feature=-1, thr= -1.00, gain=0.000000

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tree= 2, node= 31, feature=14, thr= 33.00, gain=0.081287

tree= 2, node= 62, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node= 63, feature= 7, thr= 35.00, gain=0.085659

tree= 2, node=126, feature= 0, thr= 78.00, gain=0.035743

tree= 2, node=252, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=253, feature=-1, thr= -1.00, gain=0.000000

tree= 2, node=127, feature=-1, thr= -1.00, gain=0.000000

classification accuracy=0.8476