Name: Aditya Pandey

ID: 1001405034

**Output1: pendigits\_training.txt pendigits\_test.txt optimized 50**

[adp5034@omega DT]$ java DT1

pendigits\_training.txt pendigits\_test.txt optimized 50

[adp5034@omega DT]$ clear

[adp5034@omega DT]$ javac DT1.java

[adp5034@omega DT]$ java DT1

pendigits\_training.txt pendigits\_test.txt optimized 50

Tree= 0, node= 1, feature=15, thr= 21.57, gain=0.430738

Tree= 0, node= 2, feature= 4, thr= 41.18, gain=0.407312

Tree= 0, node= 3, feature=13, thr= 58.82, gain=0.483286

Tree= 0, node= 4, feature= 9, thr= 15.69, gain=0.464466

Tree= 0, node= 5, feature=10, thr= 39.22, gain=0.436020

Tree= 0, node= 6, feature= 0, thr= 35.29, gain=0.493867

Tree= 0, node= 7, feature= 8, thr= 56.86, gain=0.564373

Tree= 0, node= 8, feature=14, thr= 60.78, gain=0.329737

Tree= 0, node= 9, feature= 5, thr= 64.71, gain=0.429977

Tree= 0, node= 10, feature=14, thr= 37.25, gain=0.155759

Tree= 0, node= 11, feature= 3, thr= 90.20, gain=0.476025

Tree= 0, node= 12, feature=14, thr= 37.25, gain=0.194893

Tree= 0, node= 13, feature=10, thr= 29.41, gain=0.405421

Tree= 0, node= 14, feature=14, thr= 96.08, gain=0.511200

Tree= 0, node= 15, feature= 7, thr= 24.33, gain=0.142362

Tree= 0, node= 16, feature= 1, thr= 73.53, gain=0.019401

Tree= 0, node= 17, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 18, feature=15, thr= 0.41, gain=0.130955

Tree= 0, node= 19, feature= 9, thr= 60.47, gain=0.367819

Tree= 0, node= 20, feature=12, thr= 30.06, gain=0.443792

Tree= 0, node= 21, feature= 8, thr= 34.59, gain=0.097667

Tree= 0, node= 22, feature= 6, thr= 72.55, gain=0.353238

Tree= 0, node= 23, feature= 7, thr= 77.10, gain=0.283783

Tree= 0, node= 24, feature= 1, thr= 84.51, gain=0.381894

Tree= 0, node= 25, feature=13, thr= 14.78, gain=0.091067

Tree= 0, node= 26, feature=15, thr= 31.18, gain=0.154267

Tree= 0, node= 27, feature= 9, thr= 19.61, gain=0.321975

Tree= 0, node= 28, feature=11, thr= 31.67, gain=0.109176

Tree= 0, node= 29, feature=13, thr= 71.06, gain=0.239038

Tree= 0, node= 30, feature= 2, thr= 54.90, gain=0.064414

Tree= 0, node= 31, feature= 9, thr= 58.82, gain=0.636514

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= 36, feature= 7, thr= 66.47, gain=0.076314

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

Tree= 0, node= 38, feature=14, thr= 25.49, gain=0.536033

Tree= 0, node= 39, feature= 0, thr= 39.22, gain=0.141272

Tree= 0, node= 40, feature= 3, thr= 96.71, gain=0.259703

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

Tree= 0, node= 42, feature= 9, thr= 1.43, gain=0.054021

Tree= 0, node= 43, feature= 6, thr= 68.14, gain=0.189978

Tree= 0, node= 44, feature=14, thr= 96.08, gain=0.236595

Tree= 0, node= 45, feature= 1, thr= 82.35, gain=0.224714

Tree= 0, node= 46, feature= 2, thr= 88.59, gain=0.175700

Tree= 0, node= 47, feature= 5, thr= 89.29, gain=0.562501

Tree= 0, node= 48, feature= 8, thr= 76.47, gain=0.450561

Tree= 0, node= 49, feature= 6, thr= 50.47, gain=0.525077

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

Tree= 0, node= 51, feature= 3, thr= 87.45, gain=0.035618

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

Tree= 0, node= 53, feature= 0, thr= 53.57, gain=0.090074

Tree= 0, node= 54, feature=15, thr= 67.29, gain=0.184297

Tree= 0, node= 55, feature=10, thr= 67.06, gain=0.535823

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

Tree= 0, node= 57, feature=12, thr= 21.57, gain=0.110234

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

Tree= 0, node= 59, feature= 5, thr= 54.41, gain=0.004772

Tree= 0, node= 60, feature= 6, thr= 96.08, gain=0.017327

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

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

Tree= 0, node= 63, feature= 1, thr= 3.92, gain=0.692347

Tree= 0, node= 72, feature= 5, thr= 13.35, gain=0.024497

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

Tree= 0, node= 76, feature= 7, thr= 71.86, gain=0.344418

Tree= 0, node= 77, feature=10, thr= 60.78, gain=0.599021

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

Tree= 0, node= 79, feature= 1, thr= 92.47, gain=0.054432

Tree= 0, node= 80, feature= 5, thr= 68.63, gain=0.093600

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

Tree= 0, node= 84, feature= 8, thr= 18.67, gain=0.255470

Tree= 0, node= 85, feature= 7, thr= 73.02, gain=0.034741

Tree= 0, node= 86, feature=12, thr= 55.47, gain=0.199378

Tree= 0, node= 87, feature= 8, thr= 49.82, gain=0.144422

Tree= 0, node= 88, feature= 1, thr= 39.18, gain=0.213889

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

Tree= 0, node= 90, feature= 5, thr= 15.69, gain=0.073783

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

Tree= 0, node= 92, feature= 0, thr= 78.43, gain=0.121238

Tree= 0, node= 93, feature= 5, thr= 84.31, gain=0.625098

Tree= 0, node= 94, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 95, feature= 6, thr= 70.59, gain=0.684869

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= 98, feature=-1, thr= -1.00, gain=0.000000

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

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

Tree= 0, node=103, feature= 8, thr= 1.96, gain=0.018822

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

Tree= 0, node=107, feature=14, thr= 1.96, gain=0.039609

Tree= 0, node=108, feature= 4, thr= 62.75, gain=0.103968

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

Tree= 0, node=110, feature=-1, thr= -1.00, gain=0.000000

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

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

Tree= 0, node=115, feature= 1, thr= 26.47, gain=0.020081

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

Tree= 0, node=119, feature= 6, thr= 45.33, gain=0.067443

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=126, feature=-1, thr= -1.00, gain=0.000000

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

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

Tree= 0, node=145, feature=13, thr= 6.08, gain=0.016983

Tree= 0, node=152, feature=13, thr= 5.10, gain=0.322441

Tree= 0, node=153, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node=155, feature= 7, thr= 54.53, gain=0.242036

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=160, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node=168, feature= 5, thr= 74.55, gain=0.042210

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

Tree= 0, node=170, feature= 9, thr= 5.61, gain=0.004956

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

Tree= 0, node=172, feature= 6, thr= 58.29, gain=0.121807

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

Tree= 0, node=174, feature= 0, thr= 73.33, gain=0.037438

Tree= 0, node=175, feature=11, thr= 9.06, gain=0.375073

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

Tree= 0, node=177, feature= 7, thr= 67.06, gain=0.222983

Tree= 0, node=180, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=181, feature= 0, thr= 60.78, gain=0.068504

Tree= 0, node=184, feature= 9, thr= 18.55, gain=0.093114

Tree= 0, node=185, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=186, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=187, feature= 1, thr= 79.29, gain=0.470615

Tree= 0, node=190, feature= 4, thr= 48.04, gain=0.202273

Tree= 0, node=191, feature=11, thr= 39.69, gain=0.358688

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=214, feature=-1, thr= -1.00, gain=0.000000

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

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=230, feature=-1, thr= -1.00, gain=0.000000

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

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=290, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=291, feature= 9, thr= 88.47, gain=0.005943

Tree= 0, node=304, feature= 6, thr= 67.45, gain=0.173924

Tree= 0, node=305, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=310, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node=336, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=337, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node=341, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=344, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node=348, feature= 1, thr= 89.59, gain=0.017971

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

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

Tree= 0, node=351, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node=355, feature= 3, thr= 88.04, gain=0.017400

Tree= 0, node=362, feature= 8, thr= 24.51, gain=0.014811

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

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

Tree= 0, node=369, feature=14, thr= 52.94, gain=0.077371

Tree= 0, node=374, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=375, feature=-1, thr= -1.00, gain=0.000000

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=382, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=383, feature= 2, thr= 45.71, gain=0.071585

Tree= 0, node=582, feature= 7, thr= 17.69, gain=0.005763

Tree= 0, node=583, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=608, feature= 1, thr= 81.37, gain=0.038900

Tree= 0, node=609, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=696, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node=710, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=711, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=724, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=725, feature=15, thr= 9.12, gain=0.014837

Tree= 0, node=738, feature= 6, thr= 21.57, gain=0.037368

Tree= 0, node=739, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=766, feature= 1, thr= 66.67, gain=0.053387

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

Tree= 0, node=1164, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=1165, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=1216, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=1217, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=1450, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=1451, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=1476, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=1477, feature= 3, thr= 99.12, gain=0.028859

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

Tree= 0, node=1533, feature= 2, thr= 41.47, gain=0.046669

Tree= 0, node=2954, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=2955, feature= 2, thr= 84.67, gain=0.011267

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=5910, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=5911, feature=-1, thr= -1.00, gain=0.000000

classification accuracy=0.8382

**Output2: pendigits\_training.txt pendigits\_test.txt randomized 50**

pendigits\_training.txt pendigits\_test.txt randomized 50

Tree= 0, node= 1, feature= 6, thr= 25.49, gain=0.204801

Tree= 0, node= 2, feature= 3, thr= 68.63, gain=0.221660

Tree= 0, node= 3, feature= 6, thr= 86.94, gain=0.078923

Tree= 0, node= 4, feature= 0, thr= 62.75, gain=0.124642

Tree= 0, node= 5, feature= 8, thr= 50.98, gain=0.149875

Tree= 0, node= 6, feature= 1, thr= 98.04, gain=0.192726

Tree= 0, node= 7, feature= 7, thr= 60.78, gain=0.385412

Tree= 0, node= 8, feature= 0, thr= 46.20, gain=0.039305

Tree= 0, node= 9, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 10, feature= 4, thr= 50.98, gain=0.238067

Tree= 0, node= 11, feature= 4, thr= 1.90, gain=0.165334

Tree= 0, node= 12, feature= 3, thr= 92.16, gain=0.353010

Tree= 0, node= 13, feature= 5, thr= 64.71, gain=0.330254

Tree= 0, node= 14, feature= 3, thr= 52.94, gain=0.540599

Tree= 0, node= 15, feature= 2, thr= 41.18, gain=0.071641

Tree= 0, node= 16, feature= 5, thr= 45.10, gain=0.268636

Tree= 0, node= 17, feature= 4, thr= 3.92, gain=0.353387

Tree= 0, node= 20, feature= 1, thr= 99.12, gain=0.178083

Tree= 0, node= 21, feature= 9, thr= 52.35, gain=0.276140

Tree= 0, node= 22, feature= 6, thr= 12.25, gain=0.126012

Tree= 0, node= 23, feature= 6, thr= 1.47, gain=0.266360

Tree= 0, node= 24, feature= 1, thr= 71.10, gain=0.181578

Tree= 0, node= 25, feature= 8, thr= 56.86, gain=0.354644

Tree= 0, node= 26, feature= 6, thr= 44.82, gain=0.057329

Tree= 0, node= 27, feature= 5, thr= 72.55, gain=0.068819

Tree= 0, node= 28, feature= 9, thr= 1.96, gain=0.187462

Tree= 0, node= 29, feature= 2, thr= 25.49, gain=0.355889

Tree= 0, node= 30, feature= 1, thr= 70.59, gain=0.442014

Tree= 0, node= 31, feature= 4, thr= 72.94, gain=0.391698

Tree= 0, node= 32, feature= 0, thr= 38.78, gain=0.020646

Tree= 0, node= 33, feature= 4, thr= 41.76, gain=0.308495

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= 40, feature= 4, thr= 23.53, gain=0.171158

Tree= 0, node= 41, feature= 6, thr= 10.29, gain=0.045482

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

Tree= 0, node= 43, feature= 1, thr= 83.82, gain=0.371993

Tree= 0, node= 44, feature= 5, thr= 77.06, gain=0.185811

Tree= 0, node= 45, feature= 0, thr= 78.43, gain=0.282406

Tree= 0, node= 46, feature= 2, thr= 73.33, gain=0.384904

Tree= 0, node= 47, feature= 5, thr= 70.24, gain=0.624661

Tree= 0, node= 48, feature= 2, thr= 15.69, gain=0.305250

Tree= 0, node= 49, feature= 9, thr= 52.94, gain=0.348126

Tree= 0, node= 50, feature= 9, thr= 1.65, gain=0.242411

Tree= 0, node= 51, feature= 5, thr= 74.51, gain=0.082799

Tree= 0, node= 52, feature= 8, thr= 64.71, gain=0.432702

Tree= 0, node= 53, feature= 2, thr= 54.90, gain=0.144329

Tree= 0, node= 54, feature= 8, thr= 66.67, gain=0.497211

Tree= 0, node= 55, feature= 0, thr= 17.65, gain=0.474218

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

Tree= 0, node= 57, feature= 6, thr= 99.24, gain=0.022750

Tree= 0, node= 58, feature= 3, thr= 84.33, gain=0.227495

Tree= 0, node= 59, feature= 2, thr= 68.08, gain=0.211548

Tree= 0, node= 60, feature= 6, thr= 96.18, gain=0.032116

Tree= 0, node= 61, feature= 2, thr= 19.29, gain=0.109449

Tree= 0, node= 62, feature= 0, thr= 55.88, gain=0.084766

Tree= 0, node= 63, feature= 9, thr= 57.18, gain=0.197018

Tree= 0, node= 64, feature= 1, thr= 63.53, gain=0.090295

Tree= 0, node= 65, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node= 67, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 80, feature= 4, thr= 0.45, gain=0.114033

Tree= 0, node= 81, feature= 2, thr= 58.82, gain=0.474240

Tree= 0, node= 82, feature= 2, thr= 8.14, gain=0.065694

Tree= 0, node= 83, feature= 7, thr= 51.76, gain=0.241088

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

Tree= 0, node= 87, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 88, feature= 3, thr= 97.57, gain=0.041733

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

Tree= 0, node= 90, feature= 7, thr= 16.24, gain=0.654433

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

Tree= 0, node= 92, feature= 5, thr= 73.73, gain=0.192122

Tree= 0, node= 93, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 94, feature= 2, thr= 18.49, gain=0.199634

Tree= 0, node= 95, feature= 9, thr= 57.88, gain=0.302981

Tree= 0, node= 96, feature= 2, thr= 8.24, gain=0.120667

Tree= 0, node= 97, feature= 2, thr= 53.88, gain=0.122577

Tree= 0, node= 98, feature= 0, thr= 52.94, gain=0.096216

Tree= 0, node= 99, feature= 6, thr= 68.35, gain=0.291097

Tree= 0, node=100, feature= 3, thr= 99.04, gain=0.027463

Tree= 0, node=101, feature= 5, thr= 88.63, gain=0.130797

Tree= 0, node=102, feature= 0, thr= 60.78, gain=0.424714

Tree= 0, node=103, feature= 7, thr= 48.59, gain=0.236452

Tree= 0, node=104, feature= 9, thr= 13.59, gain=0.372001

Tree= 0, node=105, feature= 9, thr= 26.67, gain=0.493497

Tree= 0, node=106, feature= 6, thr= 66.71, gain=0.022473

Tree= 0, node=107, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=108, feature= 6, thr= 49.14, gain=0.247830

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

Tree= 0, node=110, feature= 1, thr= 99.02, gain=0.071665

Tree= 0, node=111, feature= 5, thr= 78.29, gain=0.095778

Tree= 0, node=114, feature= 5, thr= 5.33, gain=0.454319

Tree= 0, node=115, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=116, feature= 4, thr= 43.75, gain=0.612123

Tree= 0, node=117, feature= 0, thr= 1.96, gain=0.320753

Tree= 0, node=118, feature= 6, thr= 94.14, gain=0.063586

Tree= 0, node=119, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node=121, feature= 4, thr= 74.12, gain=0.034669

Tree= 0, node=122, feature= 9, thr= 69.53, gain=0.173754

Tree= 0, node=123, feature= 0, thr= 45.10, gain=0.507145

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

Tree= 0, node=125, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=126, feature= 1, thr= 66.12, gain=0.286027

Tree= 0, node=127, feature= 5, thr= 76.35, gain=0.190316

Tree= 0, node=128, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=129, feature= 5, thr= 28.24, gain=0.099957

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

Tree= 0, node=161, feature= 9, thr= 18.12, gain=0.495532

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Tree= 0, node=165, feature= 5, thr= 34.12, gain=0.026331

Tree= 0, node=166, feature= 3, thr= 88.06, gain=0.066894

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

Tree= 0, node=176, feature= 9, thr= 16.67, gain=0.602315

Tree= 0, node=177, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=180, feature= 1, thr= 99.45, gain=0.044763

Tree= 0, node=181, feature= 1, thr= 76.71, gain=0.184907

Tree= 0, node=184, feature= 8, thr= 74.71, gain=0.037072

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Tree= 0, node=193, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=194, feature= 2, thr= 26.16, gain=0.059406

Tree= 0, node=195, feature= 7, thr= 78.43, gain=0.156505

Tree= 0, node=196, feature= 9, thr= 21.41, gain=0.160971

Tree= 0, node=197, feature= 2, thr= 26.27, gain=0.116652

Tree= 0, node=198, feature= 3, thr= 76.63, gain=0.058204

Tree= 0, node=199, feature= 0, thr= 52.94, gain=0.463204

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Tree= 0, node=201, feature= 5, thr= 65.57, gain=0.078701

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Tree= 0, node=206, feature= 7, thr= 44.33, gain=0.155034

Tree= 0, node=207, feature= 5, thr= 93.14, gain=0.075721

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Tree= 0, node=3263, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=3314, feature= 4, thr= 33.57, gain=0.090876

Tree= 0, node=3315, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=3316, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=3317, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=3318, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=3319, feature= 3, thr=100.00, gain=0.000000

Tree= 0, node=3320, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=3321, feature= 0, thr= 1.24, gain=0.063288

Tree= 0, node=3366, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=3367, feature= 0, thr= 28.76, gain=0.077064

Tree= 0, node=3400, feature= 4, thr= 17.65, gain=0.442925

Tree= 0, node=3401, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=3422, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=3423, feature= 7, thr= 67.12, gain=0.191444

Tree= 0, node=5300, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=5301, feature= 7, thr= 26.39, gain=0.044050

Tree= 0, node=5304, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=5305, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=5306, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=5307, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=5640, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=5641, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=5890, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=5891, feature= 8, thr= 52.18, gain=0.022822

Tree= 0, node=6282, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6283, feature=-1, thr= -1.00, gain=0.000000

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Tree= 0, node=6287, feature= 1, thr= 96.12, gain=0.001817

Tree= 0, node=6296, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6297, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6300, feature= 5, thr= 46.35, gain=0.220570

Tree= 0, node=6301, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6456, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6457, feature= 4, thr= 37.88, gain=0.546157

Tree= 0, node=6460, feature=-1, thr= -1.00, gain=0.000000

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Tree= 0, node=6462, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6463, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6470, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6471, feature= 2, thr= 22.33, gain=0.020580

Tree= 0, node=6472, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6473, feature=-1, thr= -1.00, gain=0.000000

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Tree= 0, node=6511, feature=-1, thr= -1.00, gain=0.000000

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Tree= 0, node=6629, feature= 0, thr= 4.63, gain=0.016041

Tree= 0, node=6638, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6639, feature= 3, thr=100.00, gain=0.000000

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Tree= 0, node=6643, feature= 4, thr= 59.80, gain=0.030161

Tree= 0, node=6734, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6735, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6800, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6801, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6846, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=6847, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=10602, feature= 5, thr= 44.45, gain=0.031951

Tree= 0, node=10603, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=11782, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=11783, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=12574, feature=-1, thr= -1.00, gain=0.000000

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Tree= 0, node=12600, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=12601, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=12914, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=12915, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=12922, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=12923, feature= 1, thr= 84.33, gain=0.056403

Tree= 0, node=12942, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=12943, feature= 4, thr= 68.76, gain=0.011368

Tree= 0, node=12980, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=12981, feature= 2, thr= 98.04, gain=0.027982

Tree= 0, node=13258, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=13259, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=13278, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=13279, feature= 0, thr= 64.71, gain=0.346114

Tree= 0, node=13286, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=13287, feature= 0, thr= 31.90, gain=0.079841

Tree= 0, node=21204, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=21205, feature= 6, thr= 1.18, gain=0.011275

Tree= 0, node=25846, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=25847, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=25886, feature= 8, thr= 26.75, gain=0.144300

Tree= 0, node=25887, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=25962, feature= 1, thr= 92.24, gain=0.054811

Tree= 0, node=25963, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=26558, feature= 2, thr= 96.98, gain=0.038130

Tree= 0, node=26559, feature= 7, thr= 56.59, gain=0.317153

Tree= 0, node=26574, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=26575, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=42410, feature= 6, thr= 0.02, gain=0.012701

Tree= 0, node=42411, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=51772, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=51773, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=51924, feature= 9, thr= 16.33, gain=0.025436

Tree= 0, node=51925, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=53116, feature= 4, thr= 47.06, gain=0.053354

Tree= 0, node=53117, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=53118, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=53119, feature= 0, thr= 75.33, gain=0.133992

Tree= 0, node=84820, feature= 3, thr= 86.24, gain=0.048614

Tree= 0, node=84821, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=103848, feature= 1, thr= 85.24, gain=0.020767

Tree= 0, node=103849, feature= 5, thr= 83.29, gain=0.011826

Tree= 0, node=106232, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=106233, feature= 3, thr=100.00, gain=0.000000

Tree= 0, node=106238, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=106239, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=169640, feature= 4, thr= 13.24, gain=0.065088

Tree= 0, node=169641, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=207696, feature= 0, thr= 14.12, gain=0.026656

Tree= 0, node=207697, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=207698, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=207699, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=212466, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=212467, feature= 3, thr=100.00, gain=0.000000

Tree= 0, node=339280, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=339281, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=415392, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=415393, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=424934, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=424935, feature= 5, thr= 84.18, gain=0.004497

Tree= 0, node=849870, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=849871, feature= 8, thr= 88.24, gain=0.008481

Tree= 0, node=1699742, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=1699743, feature=-1, thr= -1.00, gain=0.000000

classification accuracy=0.6404

**Option 3: pendigits\_training.txt pendigits\_test.txt forest3 50**

pendigits\_training.txt pendigits\_test.txt forest3 50

Tree= 0, node= 1, feature= 6, thr= 25.49, gain=0.204801

Tree= 0, node= 2, feature= 6, thr= 4.41, gain=0.056114

Tree= 0, node= 3, feature= 3, thr= 90.20, gain=0.387700

Tree= 0, node= 4, feature= 1, thr= 98.49, gain=0.340478

Tree= 0, node= 5, feature= 7, thr= 47.06, gain=0.260055

Tree= 0, node= 6, feature= 3, thr= 67.06, gain=0.137661

Tree= 0, node= 7, feature= 2, thr= 56.86, gain=0.066314

Tree= 0, node= 8, feature= 1, thr= 78.88, gain=0.196101

Tree= 0, node= 9, feature= 4, thr= 32.33, gain=0.057374

Tree= 0, node= 10, feature= 1, thr= 98.78, gain=0.306802

Tree= 0, node= 11, feature= 3, thr= 88.47, gain=0.343452

Tree= 0, node= 12, feature= 3, thr= 49.92, gain=0.111775

Tree= 0, node= 13, feature= 2, thr= 25.49, gain=0.244568

Tree= 0, node= 14, feature= 2, thr= 20.86, gain=0.044660

Tree= 0, node= 15, feature= 2, thr= 93.25, gain=0.068060

Tree= 0, node= 16, feature= 3, thr= 62.75, gain=0.536099

Tree= 0, node= 17, feature= 8, thr= 39.06, gain=0.155720

Tree= 0, node= 18, feature= 8, thr= 49.02, gain=0.185374

Tree= 0, node= 19, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 20, feature= 7, thr= 14.75, gain=0.307195

Tree= 0, node= 21, feature= 6, thr= 15.20, gain=0.040950

Tree= 0, node= 22, feature= 1, thr= 44.16, gain=0.242357

Tree= 0, node= 23, feature= 1, thr= 79.29, gain=0.418353

Tree= 0, node= 24, feature= 2, thr= 21.57, gain=0.328133

Tree= 0, node= 25, feature= 8, thr= 52.94, gain=0.531629

Tree= 0, node= 26, feature= 4, thr= 33.33, gain=0.470628

Tree= 0, node= 27, feature= 7, thr= 54.90, gain=0.401020

Tree= 0, node= 28, feature= 0, thr= 37.25, gain=0.527303

Tree= 0, node= 29, feature= 9, thr= 34.94, gain=0.397209

Tree= 0, node= 30, feature= 4, thr= 54.90, gain=0.283281

Tree= 0, node= 31, feature= 3, thr= 97.18, gain=0.092291

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

Tree= 0, node= 33, feature= 3, thr= 97.10, gain=0.085618

Tree= 0, node= 34, feature= 8, thr= 3.06, gain=0.154127

Tree= 0, node= 35, feature= 0, thr= 79.29, gain=0.228538

Tree= 0, node= 36, feature= 4, thr= 0.63, gain=0.019384

Tree= 0, node= 37, feature= 4, thr= 0.63, gain=0.063523

Tree= 0, node= 40, feature= 5, thr= 34.12, gain=0.223607

Tree= 0, node= 41, feature= 1, thr= 85.06, gain=0.375568

Tree= 0, node= 42, feature= 0, thr= 45.10, gain=0.175853

Tree= 0, node= 43, feature= 4, thr= 8.35, gain=0.572370

Tree= 0, node= 44, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 45, feature= 2, thr= 17.65, gain=0.115179

Tree= 0, node= 46, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 47, feature= 7, thr= 59.73, gain=0.192257

Tree= 0, node= 48, feature= 6, thr= 56.08, gain=0.048518

Tree= 0, node= 49, feature= 9, thr= 66.27, gain=0.373373

Tree= 0, node= 50, feature= 1, thr= 85.00, gain=0.065560

Tree= 0, node= 51, feature= 9, thr= 59.45, gain=0.467848

Tree= 0, node= 52, feature= 4, thr= 14.24, gain=0.050322

Tree= 0, node= 53, feature= 5, thr= 75.00, gain=0.431091

Tree= 0, node= 54, feature= 6, thr= 48.67, gain=0.145741

Tree= 0, node= 55, feature= 4, thr= 47.06, gain=0.170840

Tree= 0, node= 56, feature= 0, thr= 26.12, gain=0.094641

Tree= 0, node= 57, feature= 3, thr= 94.18, gain=0.058326

Tree= 0, node= 58, feature= 4, thr= 41.18, gain=0.223542

Tree= 0, node= 59, feature= 7, thr= 80.39, gain=0.188172

Tree= 0, node= 60, feature= 0, thr= 95.24, gain=0.170933

Tree= 0, node= 61, feature= 4, thr= 77.06, gain=0.089946

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

Tree= 0, node= 63, feature= 5, thr= 86.00, gain=0.575563

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

Tree= 0, node= 67, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 68, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 69, feature= 5, thr= 43.14, gain=0.314946

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

Tree= 0, node= 71, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 72, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 73, feature= 0, thr= 82.35, gain=0.105815

Tree= 0, node= 74, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 75, feature= 0, thr= 68.63, gain=0.093354

Tree= 0, node= 80, feature= 0, thr= 47.12, gain=0.136109

Tree= 0, node= 81, feature= 1, thr= 89.08, gain=0.078197

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

Tree= 0, node= 83, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 84, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 85, feature= 5, thr= 45.00, gain=0.123555

Tree= 0, node= 86, feature= 6, thr= 21.12, gain=0.056547

Tree= 0, node= 87, feature= 0, thr= 43.14, gain=0.347702

Tree= 0, node= 90, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node= 91, feature= 0, thr= 66.67, gain=0.068244

Tree= 0, node= 94, feature= 5, thr= 82.37, gain=0.356436

Tree= 0, node= 95, feature= 5, thr= 88.75, gain=0.254016

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

Tree= 0, node= 97, feature= 9, thr= 9.80, gain=0.101529

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

Tree= 0, node= 99, feature= 0, thr= 1.96, gain=0.231910

Tree= 0, node=100, feature= 3, thr= 55.33, gain=0.056037

Tree= 0, node=101, feature= 2, thr= 36.76, gain=0.076959

Tree= 0, node=102, feature= 9, thr= 40.29, gain=0.096563

Tree= 0, node=103, feature= 9, thr= 73.24, gain=0.166696

Tree= 0, node=104, feature= 6, thr= 46.31, gain=0.127391

Tree= 0, node=105, feature= 0, thr= 52.94, gain=0.202424

Tree= 0, node=106, feature= 7, thr= 33.33, gain=0.369143

Tree= 0, node=107, feature= 5, thr= 82.35, gain=0.282363

Tree= 0, node=108, feature= 9, thr= 28.47, gain=0.597852

Tree= 0, node=109, feature= 7, thr= 26.47, gain=0.597162

Tree= 0, node=110, feature= 3, thr= 79.22, gain=0.194795

Tree= 0, node=111, feature= 4, thr= 97.96, gain=0.013242

Tree= 0, node=112, feature= 1, thr= 85.57, gain=0.393625

Tree= 0, node=113, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node=115, feature= 8, thr= 62.75, gain=0.261365

Tree= 0, node=116, feature= 2, thr= 32.67, gain=0.055990

Tree= 0, node=117, feature= 2, thr= 34.04, gain=0.043677

Tree= 0, node=118, feature= 9, thr= 60.10, gain=0.310311

Tree= 0, node=119, feature= 8, thr= 88.24, gain=0.285366

Tree= 0, node=120, feature= 1, thr= 81.37, gain=0.270031

Tree= 0, node=121, feature= 4, thr= 42.35, gain=0.159692

Tree= 0, node=122, feature= 9, thr= 27.00, gain=0.467890

Tree= 0, node=123, feature= 9, thr= 26.35, gain=0.466966

Tree= 0, node=126, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=127, feature= 8, thr= 72.39, gain=0.226905

Tree= 0, node=138, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=139, feature= 9, thr= 24.71, gain=0.692969

Tree= 0, node=146, feature= 6, thr= 1.02, gain=0.032012

Tree= 0, node=147, feature= 6, thr= 0.08, gain=0.002969

Tree= 0, node=150, feature= 4, thr= 11.29, gain=0.066727

Tree= 0, node=151, feature= 7, thr= 24.24, gain=0.606825

Tree= 0, node=160, feature= 3, thr= 68.41, gain=0.037995

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

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

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

Tree= 0, node=171, feature= 5, thr= 72.29, gain=0.027298

Tree= 0, node=172, feature= 4, thr= 0.16, gain=0.106024

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Tree= 0, node=174, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=175, feature= 8, thr= 6.20, gain=0.019919

Tree= 0, node=182, feature= 7, thr= 72.55, gain=0.234750

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

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=190, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=191, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node=195, feature= 9, thr= 84.71, gain=0.078630

Tree= 0, node=198, feature= 4, thr= 58.20, gain=0.115884

Tree= 0, node=199, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=200, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=201, feature= 6, thr= 76.00, gain=0.088633

Tree= 0, node=202, feature= 0, thr= 53.06, gain=0.059803

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

Tree= 0, node=204, feature= 8, thr= 59.41, gain=0.102627

Tree= 0, node=205, feature= 4, thr= 1.96, gain=0.348680

Tree= 0, node=206, feature= 9, thr= 70.18, gain=0.120741

Tree= 0, node=207, feature= 4, thr= 35.29, gain=0.285834

Tree= 0, node=208, feature= 0, thr= 24.00, gain=0.130291

Tree= 0, node=209, feature= 9, thr= 36.47, gain=0.173112

Tree= 0, node=210, feature= 1, thr= 90.12, gain=0.215114

Tree= 0, node=211, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=212, feature= 6, thr= 94.35, gain=0.132027

Tree= 0, node=213, feature=-1, thr= -1.00, gain=0.000000

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

Tree= 0, node=215, feature= 7, thr= 84.47, gain=0.300836

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Tree= 0, node=219, feature= 5, thr= 56.00, gain=0.343662

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

Tree= 0, node=221, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=222, feature= 7, thr= 79.71, gain=0.087181

Tree= 0, node=223, feature= 6, thr= 66.63, gain=0.441846

Tree= 0, node=224, feature= 4, thr= 25.49, gain=0.109452

Tree= 0, node=225, feature= 0, thr= 0.51, gain=0.075020

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=232, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=233, feature= 3, thr= 99.12, gain=0.009328

Tree= 0, node=234, feature= 0, thr= 3.92, gain=0.128112

Tree= 0, node=235, feature= 1, thr= 80.00, gain=0.263219

Tree= 0, node=236, feature= 8, thr= 62.75, gain=0.147921

Tree= 0, node=237, feature= 9, thr= 65.12, gain=0.095733

Tree= 0, node=238, feature= 1, thr= 82.43, gain=0.224234

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

Tree= 0, node=240, feature= 2, thr= 72.53, gain=0.066772

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

Tree= 0, node=242, feature= 6, thr= 67.49, gain=0.183089

Tree= 0, node=243, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=244, feature= 3, thr= 99.06, gain=0.126804

Tree= 0, node=245, feature= 1, thr= 82.37, gain=0.109942

Tree= 0, node=246, feature= 6, thr= 87.80, gain=0.047606

Tree= 0, node=247, feature= 8, thr= 52.94, gain=0.354454

Tree= 0, node=254, feature= 1, thr= 72.02, gain=0.247902

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Tree= 0, node=7921, feature=-1, thr= -1.00, gain=0.000000

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Tree= 0, node=9350, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=9351, feature= 5, thr= 55.20, gain=0.038209

Tree= 0, node=9416, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=9417, feature= 9, thr= 0.00, gain=0.000000

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Tree= 0, node=12933, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=13346, feature= 7, thr= 4.02, gain=0.425328

Tree= 0, node=13347, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=15072, feature= 0, thr= 1.02, gain=0.004862

Tree= 0, node=15073, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=15086, feature=-1, thr= -1.00, gain=0.000000

Tree= 0, node=15087, feature= 0, thr= 0.06, gain=0.000175

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Tree= 0, node=25863, feature=-1, thr= -1.00, gain=0.000000

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Tree= 1, node= 7, feature= 7, thr= 45.10, gain=0.335987

Tree= 1, node= 8, feature= 3, thr= 58.67, gain=0.079014

Tree= 1, node= 9, feature= 5, thr= 99.27, gain=0.240581

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Tree= 1, node= 11, feature= 4, thr= 1.90, gain=0.165334

Tree= 1, node= 12, feature= 5, thr= 54.90, gain=0.177010

Tree= 1, node= 13, feature= 5, thr= 60.78, gain=0.237864

Tree= 1, node= 14, feature= 9, thr= 21.57, gain=0.356540

Tree= 1, node= 15, feature= 2, thr= 41.18, gain=0.132415

Tree= 1, node= 16, feature= 4, thr= 64.71, gain=0.249425

Tree= 1, node= 17, feature= 3, thr= 62.18, gain=0.032849

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Tree= 1, node= 21, feature= 5, thr= 98.39, gain=0.228959

Tree= 1, node= 22, feature= 5, thr= 76.67, gain=0.283962

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Tree= 1, node= 25, feature= 4, thr= 67.00, gain=0.114029

Tree= 1, node= 26, feature= 6, thr= 75.41, gain=0.193074

Tree= 1, node= 27, feature= 9, thr= 63.14, gain=0.102478

Tree= 1, node= 28, feature= 2, thr= 29.41, gain=0.341206

Tree= 1, node= 29, feature= 2, thr= 25.24, gain=0.120997

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Tree= 1, node= 31, feature= 2, thr= 89.76, gain=0.077456

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Tree= 1, node= 35, feature= 3, thr= 64.08, gain=0.058328

Tree= 1, node= 40, feature= 2, thr= 43.14, gain=0.375280

Tree= 1, node= 41, feature= 4, thr= 45.16, gain=0.068676

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Tree= 1, node= 44, feature= 0, thr= 47.06, gain=0.146869

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Tree= 1, node= 48, feature= 1, thr= 88.04, gain=0.059533

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Tree= 1, node=231, feature= 2, thr= 86.59, gain=0.097008

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Tree= 1, node=756, feature= 7, thr= 60.78, gain=0.402161

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Tree= 1, node=758, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=759, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=802, feature= 3, thr= 77.49, gain=0.116907

Tree= 1, node=803, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=808, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=809, feature= 2, thr= 40.43, gain=0.008241

Tree= 1, node=818, feature= 0, thr= 0.02, gain=0.036724

Tree= 1, node=819, feature= 0, thr= 0.00, gain=0.000000

Tree= 1, node=824, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=825, feature= 6, thr= 60.00, gain=0.067724

Tree= 1, node=828, feature= 5, thr= 83.12, gain=0.036673

Tree= 1, node=829, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=890, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=891, feature= 8, thr= 93.06, gain=0.009401

Tree= 1, node=892, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=893, feature= 7, thr= 80.39, gain=0.038351

Tree= 1, node=894, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=895, feature= 0, thr= 0.02, gain=0.007174

Tree= 1, node=896, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=897, feature= 7, thr= 21.12, gain=0.066000

Tree= 1, node=902, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=903, feature= 7, thr= 37.78, gain=0.029119

Tree= 1, node=904, feature= 9, thr= 11.20, gain=0.008619

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Tree= 1, node=908, feature= 2, thr= 0.57, gain=0.020784

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Tree= 1, node=915, feature= 6, thr= 85.02, gain=0.028629

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Tree= 1, node=52383, feature= 5, thr= 90.22, gain=0.091438

Tree= 1, node=63916, feature=-1, thr= -1.00, gain=0.000000

Tree= 1, node=63917, feature=-1, thr= -1.00, gain=0.000000

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Tree= 2, node= 1, feature= 1, thr= 98.04, gain=0.266636

Tree= 2, node= 2, feature= 8, thr= 56.86, gain=0.280428

Tree= 2, node= 3, feature= 3, thr= 84.90, gain=0.141916

Tree= 2, node= 4, feature= 2, thr= 21.57, gain=0.088747

Tree= 2, node= 5, feature= 1, thr= 71.10, gain=0.263977

Tree= 2, node= 6, feature= 8, thr= 49.02, gain=0.333731

Tree= 2, node= 7, feature= 3, thr= 96.18, gain=0.115707

Tree= 2, node= 8, feature= 4, thr= 31.37, gain=0.097169

Tree= 2, node= 9, feature= 0, thr= 15.69, gain=0.154545

Tree= 2, node= 10, feature= 4, thr= 45.10, gain=0.262087

Tree= 2, node= 11, feature= 2, thr= 25.49, gain=0.327161

Tree= 2, node= 12, feature= 5, thr= 45.10, gain=0.323184

Tree= 2, node= 13, feature= 5, thr= 35.29, gain=0.216731

Tree= 2, node= 14, feature= 6, thr= 35.29, gain=0.391605

Tree= 2, node= 15, feature= 7, thr= 50.98, gain=0.287541

Tree= 2, node= 16, feature= 1, thr= 80.06, gain=0.253753

Tree= 2, node= 17, feature= 9, thr= 57.73, gain=0.177091

Tree= 2, node= 18, feature= 4, thr= 75.29, gain=0.141763

Tree= 2, node= 19, feature= 8, thr= 12.08, gain=0.062628

Tree= 2, node= 20, feature= 0, thr= 43.14, gain=0.499988

Tree= 2, node= 21, feature= 0, thr= 1.96, gain=0.098874

Tree= 2, node= 22, feature= 9, thr= 60.78, gain=0.207890

Tree= 2, node= 23, feature= 5, thr= 70.59, gain=0.114822

Tree= 2, node= 24, feature= 1, thr= 99.02, gain=0.007696

Tree= 2, node= 25, feature= 1, thr= 99.02, gain=0.058651

Tree= 2, node= 26, feature= 9, thr= 27.94, gain=0.163492

Tree= 2, node= 27, feature= 6, thr= 27.45, gain=0.187299

Tree= 2, node= 28, feature= 0, thr= 52.94, gain=0.311852

Tree= 2, node= 29, feature= 1, thr= 99.02, gain=0.013881

Tree= 2, node= 30, feature= 7, thr= 33.33, gain=0.139881

Tree= 2, node= 31, feature= 3, thr= 99.06, gain=0.040122

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Tree= 2, node= 33, feature=-1, thr= -1.00, gain=0.000000

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Tree= 2, node= 38, feature= 1, thr= 78.94, gain=0.160092

Tree= 2, node= 39, feature= 4, thr= 62.75, gain=0.230920

Tree= 2, node= 40, feature= 9, thr= 68.63, gain=0.366179

Tree= 2, node= 41, feature= 2, thr= 31.37, gain=0.062248

Tree= 2, node= 42, feature= 1, thr= 4.18, gain=0.173114

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Tree= 2, node= 44, feature= 9, thr= 5.88, gain=0.136453

Tree= 2, node= 45, feature= 7, thr= 62.53, gain=0.638539

Tree= 2, node= 46, feature= 5, thr= 65.88, gain=0.176186

Tree= 2, node= 47, feature= 6, thr= 62.75, gain=0.182950

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Tree= 2, node= 55, feature= 1, thr= 99.02, gain=0.012298

Tree= 2, node= 56, feature= 5, thr= 74.12, gain=0.237378

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Tree= 2, node= 59, feature= 2, thr= 49.02, gain=0.298595

Tree= 2, node= 60, feature= 8, thr= 4.41, gain=0.263927

Tree= 2, node= 61, feature= 8, thr= 31.37, gain=0.335347

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Tree= 2, node= 68, feature= 1, thr= 80.06, gain=0.238257

Tree= 2, node= 69, feature=-1, thr= -1.00, gain=0.000000

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Tree= 2, node= 73, feature= 3, thr= 98.67, gain=0.378110

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Tree= 2, node= 77, feature= 5, thr= 54.90, gain=0.366468

Tree= 2, node= 78, feature= 6, thr= 33.33, gain=0.329328

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Tree= 2, node= 80, feature= 4, thr= 17.65, gain=0.053660

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Tree= 2, node= 83, feature= 9, thr= 33.33, gain=0.669616

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Tree= 2, node= 85, feature= 3, thr= 27.45, gain=0.128644

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Tree= 2, node= 87, feature= 6, thr= 56.86, gain=0.282787

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Tree= 2, node= 93, feature= 3, thr= 97.41, gain=0.111190

Tree= 2, node= 94, feature= 2, thr= 91.29, gain=0.094639

Tree= 2, node= 95, feature= 2, thr= 53.57, gain=0.087414

Tree= 2, node= 98, feature= 9, thr= 46.47, gain=0.163024

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Tree= 2, node=109, feature= 6, thr= 12.18, gain=0.059629

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Tree= 2, node=147, feature= 8, thr= 42.82, gain=0.103172

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Tree= 2, node=151, feature= 7, thr= 53.88, gain=0.255936

Tree= 2, node=152, feature= 0, thr= 53.88, gain=0.113657

Tree= 2, node=153, feature=-1, thr= -1.00, gain=0.000000

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Tree= 2, node=156, feature= 8, thr= 23.12, gain=0.090249

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Tree= 2, node=196, feature= 4, thr= 66.78, gain=0.207680

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Tree= 2, node=207, feature= 5, thr= 62.63, gain=0.147164

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Tree= 2, node=485, feature=-1, thr= -1.00, gain=0.000000

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Tree= 2, node=684, feature=-1, thr= -1.00, gain=0.000000

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Tree= 2, node=754, feature= 2, thr= 74.94, gain=0.054126

Tree= 2, node=755, feature= 2, thr= 37.47, gain=0.121032

Tree= 2, node=760, feature= 1, thr= 84.24, gain=0.227612

Tree= 2, node=761, feature= 0, thr= 10.94, gain=0.057102

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Tree= 2, node=767, feature= 8, thr= 82.29, gain=0.153200

Tree= 2, node=828, feature= 7, thr= 20.41, gain=0.032530

Tree= 2, node=829, feature=-1, thr= -1.00, gain=0.000000

Tree= 2, node=872, feature=-1, thr= -1.00, gain=0.000000

Tree= 2, node=873, feature=-1, thr= -1.00, gain=0.000000

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Tree= 2, node=877, feature=-1, thr= -1.00, gain=0.000000

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Tree= 2, node=889, feature= 0, thr= 32.41, gain=0.038508

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Tree= 2, node=895, feature= 1, thr=100.00, gain=0.000000

Tree= 2, node=916, feature=-1, thr= -1.00, gain=0.000000

Tree= 2, node=917, feature= 5, thr= 59.12, gain=0.016216

Tree= 2, node=946, feature=-1, thr= -1.00, gain=0.000000

Tree= 2, node=947, feature=-1, thr= -1.00, gain=0.000000

Tree= 2, node=1096, feature=-1, thr= -1.00, gain=0.000000

Tree= 2, node=1097, feature= 0, thr= 60.24, gain=0.017888

Tree= 2, node=1098, feature=-1, thr= -1.00, gain=0.000000

Tree= 2, node=1099, feature= 6, thr= 82.00, gain=0.035055

Tree= 2, node=1176, feature= 5, thr= 87.33, gain=0.036079

Tree= 2, node=1177, feature=-1, thr= -1.00, gain=0.000000

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Tree= 2, node=1209, feature= 6, thr= 75.24, gain=0.015624

Tree= 2, node=1212, feature= 3, thr= 91.53, gain=0.390640

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Tree= 2, node=1216, feature= 8, thr= 1.02, gain=0.004932

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Tree= 2, node=1373, feature= 8, thr= 68.63, gain=0.039514

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Tree= 2, node=1520, feature= 4, thr= 99.29, gain=0.100235

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Tree= 2, node=1779, feature= 8, thr= 83.06, gain=0.090661

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classification accuracy=0.7742