Mohammed Samiul Saeef

#1001387435

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

tree= 0, node= 1, feature=15, thr= 21.57, gain=0.621424

tree= 0, node= 2, feature= 4, thr= 41.18, gain=0.587628

tree= 0, node= 3, feature=13, thr= 58.82, gain=0.697235

tree= 0, node= 4, feature= 9, thr= 15.69, gain=0.670083

tree= 0, node= 5, feature=10, thr= 39.22, gain=0.629044

tree= 0, node= 6, feature= 0, thr= 35.29, gain=0.712500

tree= 0, node= 7, feature= 8, thr= 56.86, gain=0.814218

tree= 0, node= 8, feature=14, thr= 60.78, gain=0.475710

tree= 0, node= 9, feature= 5, thr= 64.71, gain=0.620325

tree= 0, node= 10, feature=14, thr= 37.25, gain=0.224713

tree= 0, node= 11, feature= 3, thr= 90.20, gain=0.686759

tree= 0, node= 12, feature=14, thr= 37.25, gain=0.281171

tree= 0, node= 13, feature=10, thr= 29.41, gain=0.584898

tree= 0, node= 14, feature=14, thr= 96.08, gain=0.737506

tree= 0, node= 15, feature= 7, thr= 24.33, gain=0.205385

tree= 0, node= 16, feature= 1, thr= 73.53, gain=0.027989

tree= 0, node= 17, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 18, feature=15, thr= 0.41, gain=0.188928

tree= 0, node= 19, feature= 9, thr= 60.47, gain=0.530651

tree= 0, node= 20, feature=12, thr= 30.06, gain=0.640257

tree= 0, node= 21, feature= 8, thr= 34.59, gain=0.140904

tree= 0, node= 22, feature= 6, thr= 72.55, gain=0.509615

tree= 0, node= 23, feature= 7, thr= 77.10, gain=0.409412

tree= 0, node= 24, feature= 1, thr= 84.51, gain=0.550957

tree= 0, node= 25, feature=13, thr= 14.78, gain=0.131381

tree= 0, node= 26, feature=15, thr= 31.18, gain=0.222560

tree= 0, node= 27, feature= 9, thr= 19.61, gain=0.464511

tree= 0, node= 28, feature=11, thr= 31.67, gain=0.157508

tree= 0, node= 29, feature=13, thr= 71.06, gain=0.344859

tree= 0, node= 30, feature= 2, thr= 54.90, gain=0.092930

tree= 0, node= 31, feature= 9, thr= 58.82, gain=0.918296

tree= 0, node= 32, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 33, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 36, feature= 7, thr= 66.47, gain=0.110097

tree= 0, node= 37, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 38, feature=14, thr= 25.49, gain=0.773333

tree= 0, node= 39, feature= 0, thr= 39.22, gain=0.203813

tree= 0, node= 40, feature= 3, thr= 96.71, gain=0.374672

tree= 0, node= 41, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 42, feature= 9, thr= 1.43, gain=0.077936

tree= 0, node= 43, feature= 6, thr= 68.14, gain=0.274080

tree= 0, node= 44, feature=14, thr= 96.08, gain=0.341335

tree= 0, node= 45, feature= 1, thr= 82.35, gain=0.324193

tree= 0, node= 46, feature= 2, thr= 88.59, gain=0.253482

tree= 0, node= 47, feature= 5, thr= 89.29, gain=0.811518

tree= 0, node= 48, feature= 8, thr= 76.47, gain=0.650022

tree= 0, node= 49, feature= 6, thr= 50.47, gain=0.757526

tree= 0, node= 50, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 51, feature= 3, thr= 87.45, gain=0.051386

tree= 0, node= 52, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 53, feature= 0, thr= 53.57, gain=0.129949

tree= 0, node= 54, feature=15, thr= 67.29, gain=0.265884

tree= 0, node= 55, feature=10, thr= 67.06, gain=0.773029

tree= 0, node= 56, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 57, feature=12, thr= 21.57, gain=0.159034

tree= 0, node= 58, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 59, feature= 5, thr= 54.41, gain=0.006884

tree= 0, node= 60, feature= 6, thr= 96.08, gain=0.024998

tree= 0, node= 61, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 62, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 63, feature= 1, thr= 3.92, gain=0.998846

tree= 0, node= 72, feature= 5, thr= 13.35, gain=0.035341

tree= 0, node= 73, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 76, feature= 7, thr= 71.86, gain=0.496889

tree= 0, node= 77, feature=10, thr= 60.78, gain=0.864204

tree= 0, node= 78, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 79, feature= 1, thr= 92.47, gain=0.078528

tree= 0, node= 80, feature= 5, thr= 68.63, gain=0.135036

tree= 0, node= 81, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 84, feature= 8, thr= 18.67, gain=0.368566

tree= 0, node= 85, feature= 7, thr= 73.02, gain=0.050120

tree= 0, node= 86, feature=12, thr= 55.47, gain=0.287642

tree= 0, node= 87, feature= 8, thr= 49.82, gain=0.208356

tree= 0, node= 88, feature= 1, thr= 39.18, gain=0.308576

tree= 0, node= 89, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 90, feature= 5, thr= 15.69, gain=0.106446

tree= 0, node= 91, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 92, feature= 0, thr= 78.43, gain=0.174910

tree= 0, node= 93, feature= 5, thr= 84.31, gain=0.901825

tree= 0, node= 94, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 95, feature= 6, thr= 70.59, gain=0.988057

tree= 0, node= 96, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 97, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 98, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 99, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=102, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=103, feature= 8, thr= 1.96, gain=0.027154

tree= 0, node=106, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=107, feature=14, thr= 1.96, gain=0.057144

tree= 0, node=108, feature= 4, thr= 62.75, gain=0.149994

tree= 0, node=109, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=110, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=111, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=114, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=115, feature= 1, thr= 26.47, gain=0.028970

tree= 0, node=118, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=119, feature= 6, thr= 45.33, gain=0.097300

tree= 0, node=120, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=121, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=126, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=127, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=144, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=145, feature=13, thr= 6.08, gain=0.024501

tree= 0, node=152, feature=13, thr= 5.10, gain=0.465185

tree= 0, node=153, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=154, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=155, feature= 7, thr= 54.53, gain=0.349184

tree= 0, node=158, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=159, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=160, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=161, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=168, feature= 5, thr= 74.55, gain=0.060896

tree= 0, node=169, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=170, feature= 9, thr= 5.61, gain=0.007149

tree= 0, node=171, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=172, feature= 6, thr= 58.29, gain=0.175730

tree= 0, node=173, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=174, feature= 0, thr= 73.33, gain=0.054012

tree= 0, node=175, feature=11, thr= 9.06, gain=0.541116

tree= 0, node=176, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=177, feature= 7, thr= 67.06, gain=0.321696

tree= 0, node=180, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=181, feature= 0, thr= 60.78, gain=0.098830

tree= 0, node=184, feature= 9, thr= 18.55, gain=0.134335

tree= 0, node=185, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=186, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=187, feature= 1, thr= 79.29, gain=0.678954

tree= 0, node=190, feature= 4, thr= 48.04, gain=0.291818

tree= 0, node=191, feature=11, thr= 39.69, gain=0.517478

tree= 0, node=206, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=207, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=214, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=215, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=216, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=217, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=230, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=231, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=238, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=239, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=290, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=291, feature= 9, thr= 88.47, gain=0.008575

tree= 0, node=304, feature= 6, thr= 67.45, gain=0.250919

tree= 0, node=305, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=310, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=311, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=336, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=337, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=340, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=341, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=344, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=345, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=348, feature= 1, thr= 89.59, gain=0.025926

tree= 0, node=349, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=350, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=351, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=354, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=355, feature= 3, thr= 89.02, gain=0.028237

tree= 0, node=362, feature= 8, thr= 24.51, gain=0.021367

tree= 0, node=363, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=368, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=369, feature=14, thr= 52.94, gain=0.111623

tree= 0, node=374, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=375, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=380, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=381, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=382, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=383, feature= 2, thr= 45.71, gain=0.103275

tree= 0, node=582, feature= 7, thr= 17.69, gain=0.008314

tree= 0, node=583, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=608, feature= 1, thr= 81.37, gain=0.056120

tree= 0, node=609, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=696, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=697, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=710, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=711, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=724, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=725, feature=15, thr= 9.12, gain=0.021405

tree= 0, node=738, feature= 6, thr= 21.57, gain=0.053910

tree= 0, node=739, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=766, feature= 1, thr= 66.67, gain=0.077022

tree= 0, node=767, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=1164, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=1165, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=1216, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=1217, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=1450, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=1451, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=1476, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=1477, feature= 3, thr= 99.12, gain=0.041635

tree= 0, node=1532, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=1533, feature= 2, thr= 41.47, gain=0.067329

tree= 0, node=2954, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=2955, feature= 2, thr= 86.33, gain=0.018695

tree= 0, node=3066, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=3067, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=5910, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=5911, feature=-1, thr= -1.00, gain=-1.000000

classification accuracy=0.8382

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

tree= 0, node= 1, feature=11, thr= 35.29, gain=0.466267

tree= 0, node= 2, feature= 6, thr= 25.49, gain=0.544787

tree= 0, node= 3, feature= 4, thr= 35.29, gain=0.579050

tree= 0, node= 4, feature= 7, thr= 47.06, gain=0.433869

tree= 0, node= 5, feature= 2, thr= 56.86, gain=0.057671

tree= 0, node= 6, feature=10, thr= 47.06, gain=0.114410

tree= 0, node= 7, feature= 4, thr= 66.12, gain=0.113125

tree= 0, node= 8, feature=10, thr= 35.29, gain=0.176811

tree= 0, node= 9, feature= 1, thr= 79.06, gain=0.351537

tree= 0, node= 10, feature= 4, thr= 45.10, gain=0.303523

tree= 0, node= 11, feature= 2, thr= 97.47, gain=0.086565

tree= 0, node= 12, feature= 3, thr= 87.06, gain=0.741230

tree= 0, node= 13, feature= 9, thr= 64.71, gain=0.347407

tree= 0, node= 14, feature= 5, thr= 58.82, gain=0.686547

tree= 0, node= 15, feature= 2, thr= 64.71, gain=0.109142

tree= 0, node= 16, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 17, feature= 7, thr= 10.14, gain=0.096970

tree= 0, node= 18, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 19, feature=14, thr= 1.96, gain=0.292041

tree= 0, node= 20, feature= 6, thr= 40.51, gain=0.389196

tree= 0, node= 21, feature= 4, thr= 77.76, gain=0.161652

tree= 0, node= 22, feature= 5, thr= 69.41, gain=0.175666

tree= 0, node= 23, feature= 3, thr= 99.29, gain=0.319967

tree= 0, node= 24, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 25, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 26, feature= 7, thr= 15.53, gain=0.855243

tree= 0, node= 27, feature= 6, thr= 47.06, gain=0.313986

tree= 0, node= 28, feature= 3, thr= 45.10, gain=0.469823

tree= 0, node= 29, feature= 5, thr= 94.37, gain=0.204257

tree= 0, node= 30, feature=12, thr= 54.90, gain=0.348753

tree= 0, node= 31, feature=10, thr= 44.69, gain=0.226163

tree= 0, node= 34, feature= 6, thr= 24.02, gain=0.032709

tree= 0, node= 35, feature= 2, thr= 44.84, gain=0.032624

tree= 0, node= 38, feature= 9, thr= 35.02, gain=0.262018

tree= 0, node= 39, feature= 9, thr= 30.04, gain=0.606504

tree= 0, node= 40, feature=13, thr= 16.39, gain=0.890492

tree= 0, node= 41, feature=13, thr= 14.65, gain=0.961635

tree= 0, node= 42, feature= 1, thr= 89.65, gain=0.254476

tree= 0, node= 43, feature=11, thr= 4.12, gain=0.318670

tree= 0, node= 44, feature= 2, thr= 67.20, gain=0.059830

tree= 0, node= 45, feature=13, thr= 21.88, gain=0.687648

tree= 0, node= 46, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 47, feature=13, thr= 17.65, gain=0.632921

tree= 0, node= 52, feature= 4, thr= 18.53, gain=0.051262

tree= 0, node= 53, feature=10, thr= 97.18, gain=0.031543

tree= 0, node= 54, feature=12, thr= 51.37, gain=0.084963

tree= 0, node= 55, feature= 4, thr= 27.45, gain=0.053497

tree= 0, node= 56, feature= 1, thr= 3.92, gain=0.265475

tree= 0, node= 57, feature= 3, thr= 78.82, gain=0.313240

tree= 0, node= 58, feature=13, thr= 41.18, gain=0.411418

tree= 0, node= 59, feature= 4, thr= 48.35, gain=0.126247

tree= 0, node= 60, feature= 1, thr= 76.47, gain=0.679991

tree= 0, node= 61, feature=10, thr= 64.61, gain=0.236322

tree= 0, node= 62, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 63, feature= 2, thr= 75.29, gain=0.231732

tree= 0, node= 68, feature=13, thr= 53.00, gain=0.897464

tree= 0, node= 69, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 70, feature=13, thr= 45.49, gain=0.246301

tree= 0, node= 71, feature= 8, thr= 38.75, gain=0.049045

tree= 0, node= 76, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 77, feature= 9, thr= 58.04, gain=0.187899

tree= 0, node= 78, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 79, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 80, feature=11, thr= 2.43, gain=0.360989

tree= 0, node= 81, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 82, feature= 7, thr= 64.00, gain=0.298927

tree= 0, node= 83, feature= 3, thr= 85.73, gain=0.229836

tree= 0, node= 84, feature= 3, thr= 96.94, gain=0.220096

tree= 0, node= 85, feature= 6, thr= 73.88, gain=0.288952

tree= 0, node= 86, feature=12, thr= 41.18, gain=0.196258

tree= 0, node= 87, feature= 1, thr= 83.14, gain=0.202383

tree= 0, node= 88, feature=13, thr= 25.71, gain=0.858984

tree= 0, node= 89, feature=14, thr= 1.96, gain=0.702458

tree= 0, node= 90, feature= 3, thr= 98.94, gain=0.231512

tree= 0, node= 91, feature= 9, thr= 2.47, gain=0.048903

tree= 0, node= 94, feature=13, thr= 6.33, gain=0.080889

tree= 0, node= 95, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=104, feature= 5, thr= 36.47, gain=0.072262

tree= 0, node=105, feature=13, thr= 54.90, gain=0.104419

tree= 0, node=106, feature= 0, thr= 96.08, gain=0.098891

tree= 0, node=107, feature= 9, thr= 56.47, gain=0.091328

tree= 0, node=108, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=109, feature= 6, thr= 11.06, gain=0.128383

tree= 0, node=110, feature= 0, thr= 72.55, gain=0.505540

tree= 0, node=111, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=112, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=113, feature= 0, thr= 21.18, gain=0.046956

tree= 0, node=114, feature= 7, thr= 28.82, gain=0.207468

tree= 0, node=115, feature= 4, thr= 53.02, gain=0.057449

tree= 0, node=116, feature=13, thr= 20.39, gain=0.596310

tree= 0, node=117, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=118, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=119, feature= 6, thr= 86.27, gain=0.998575

tree= 0, node=120, feature= 1, thr= 1.49, gain=0.441119

tree= 0, node=121, feature= 7, thr= 29.41, gain=0.751829

tree= 0, node=122, feature= 7, thr= 64.71, gain=0.629249

tree= 0, node=123, feature=15, thr= 52.94, gain=0.622061

tree= 0, node=126, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=127, feature= 2, thr= 87.29, gain=0.097975

tree= 0, node=136, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=137, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=140, feature=15, thr= 1.18, gain=0.274507

tree= 0, node=141, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=142, feature=12, thr= 93.53, gain=0.105177

tree= 0, node=143, feature= 7, thr= 41.35, gain=0.329846

tree= 0, node=154, feature= 3, thr= 67.06, gain=0.322757

tree= 0, node=155, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=160, feature=-1, thr= -1.00, gain=-1.000000

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tree= 0, node=3740, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=3741, feature= 9, thr= 84.20, gain=0.022588

tree= 0, node=3860, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=3861, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=3944, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=3945, feature= 1, thr= 61.10, gain=0.011583

tree= 0, node=5410, feature= 6, thr= 50.24, gain=0.103566

tree= 0, node=5411, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=5412, feature=-1, thr= -1.00, gain=-1.000000

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tree= 0, node=5415, feature= 4, thr= 65.24, gain=0.129502

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tree= 0, node=5436, feature= 9, thr= 0.59, gain=0.070375

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tree= 0, node=5439, feature= 4, thr= 71.35, gain=0.223302

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tree= 0, node=5593, feature=-1, thr= -1.00, gain=-1.000000

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tree= 0, node=5794, feature= 5, thr= 81.37, gain=0.176955

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tree= 0, node=5801, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=5808, feature= 1, thr= 71.71, gain=0.100537

tree= 0, node=5809, feature= 7, thr= 64.31, gain=0.080257

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tree= 0, node=7320, feature=14, thr= 59.45, gain=0.578795

tree= 0, node=7321, feature=-1, thr= -1.00, gain=-1.000000

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tree= 0, node=7890, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=7891, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=10820, feature= 9, thr= 0.41, gain=0.050423

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tree= 0, node=11618, feature=10, thr= 84.35, gain=0.015616

tree= 0, node=11619, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=14640, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=14641, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=21640, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=21641, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=23234, feature= 8, thr= 78.33, gain=0.012564

tree= 0, node=23235, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=23236, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=23237, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=46468, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=46469, feature= 4, thr= 43.04, gain=0.364299

tree= 0, node=92938, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=92939, feature=-1, thr= -1.00, gain=-1.000000

classification accuracy=0.6901

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

tree= 0, node= 1, feature=13, thr= 52.94, gain=0.549898

tree= 0, node= 2, feature= 7, thr= 49.02, gain=0.481705

tree= 0, node= 3, feature= 7, thr= 25.49, gain=0.115414

tree= 0, node= 4, feature=10, thr= 49.02, gain=0.695378

tree= 0, node= 5, feature= 6, thr= 70.59, gain=0.240299

tree= 0, node= 6, feature= 7, thr= 2.45, gain=0.017274

tree= 0, node= 7, feature=10, thr= 27.45, gain=0.364421

tree= 0, node= 8, feature=12, thr= 47.55, gain=0.359473

tree= 0, node= 9, feature= 5, thr= 66.47, gain=0.307803

tree= 0, node= 10, feature=10, thr= 50.98, gain=0.609772

tree= 0, node= 11, feature=15, thr= 22.18, gain=0.267462

tree= 0, node= 12, feature= 1, thr= 98.80, gain=0.038606

tree= 0, node= 13, feature= 1, thr= 82.71, gain=0.181202

tree= 0, node= 14, feature=14, thr= 23.53, gain=0.296810

tree= 0, node= 15, feature=11, thr= 45.10, gain=0.425403

tree= 0, node= 16, feature= 5, thr= 73.47, gain=0.058348

tree= 0, node= 17, feature= 6, thr= 21.57, gain=0.256076

tree= 0, node= 18, feature=15, thr= 1.61, gain=0.796887

tree= 0, node= 19, feature=15, thr= 28.55, gain=0.621994

tree= 0, node= 20, feature= 1, thr= 88.35, gain=0.134745

tree= 0, node= 21, feature= 2, thr= 52.94, gain=0.136134

tree= 0, node= 22, feature= 5, thr= 74.71, gain=0.335503

tree= 0, node= 23, feature= 9, thr= 40.39, gain=0.107863

tree= 0, node= 24, feature=12, thr= 63.86, gain=0.534827

tree= 0, node= 25, feature=11, thr= 60.78, gain=0.114734

tree= 0, node= 26, feature=10, thr= 47.06, gain=0.265793

tree= 0, node= 27, feature= 3, thr= 82.16, gain=0.382191

tree= 0, node= 28, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 29, feature= 1, thr= 1.96, gain=0.130163

tree= 0, node= 30, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 31, feature= 4, thr= 61.41, gain=0.400735

tree= 0, node= 32, feature=11, thr= 5.88, gain=0.213487

tree= 0, node= 33, feature=12, thr= 25.80, gain=0.103751

tree= 0, node= 34, feature= 8, thr= 4.24, gain=0.138338

tree= 0, node= 35, feature= 7, thr= 23.06, gain=0.037022

tree= 0, node= 36, feature= 4, thr= 2.65, gain=0.012968

tree= 0, node= 37, feature= 5, thr= 60.18, gain=0.027425

tree= 0, node= 38, feature= 4, thr= 52.94, gain=0.715458

tree= 0, node= 39, feature= 2, thr= 65.35, gain=0.162934

tree= 0, node= 40, feature= 9, thr= 51.06, gain=0.229040

tree= 0, node= 41, feature= 4, thr= 76.47, gain=0.625615

tree= 0, node= 42, feature= 8, thr= 98.04, gain=0.131088

tree= 0, node= 43, feature= 7, thr= 69.61, gain=0.363713

tree= 0, node= 44, feature=12, thr= 41.41, gain=0.138126

tree= 0, node= 45, feature= 2, thr= 47.06, gain=0.124192

tree= 0, node= 46, feature= 6, thr= 81.24, gain=0.059545

tree= 0, node= 47, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 48, feature= 4, thr= 35.29, gain=0.795694

tree= 0, node= 49, feature=11, thr= 40.96, gain=0.046309

tree= 0, node= 50, feature=11, thr= 41.18, gain=0.064643

tree= 0, node= 51, feature= 8, thr= 45.10, gain=0.985643

tree= 0, node= 52, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 53, feature=15, thr= 68.59, gain=0.194249

tree= 0, node= 54, feature= 5, thr= 44.98, gain=0.621856

tree= 0, node= 55, feature=15, thr= 67.65, gain=0.322757

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tree= 0, node= 59, feature= 5, thr= 53.18, gain=0.088863

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tree= 0, node= 65, feature= 8, thr= 70.59, gain=0.150946

tree= 0, node= 66, feature=12, thr= 14.22, gain=0.023625

tree= 0, node= 67, feature= 1, thr= 77.57, gain=0.588179

tree= 0, node= 68, feature=13, thr= 10.59, gain=0.675623

tree= 0, node= 69, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 70, feature=12, thr= 51.22, gain=0.216678

tree= 0, node= 71, feature= 8, thr= 35.29, gain=0.365123

tree= 0, node= 72, feature= 6, thr= 15.69, gain=0.081034

tree= 0, node= 73, feature= 7, thr= 24.02, gain=0.242964

tree= 0, node= 74, feature= 4, thr= 64.00, gain=0.024032

tree= 0, node= 75, feature= 6, thr= 50.59, gain=0.360781

tree= 0, node= 76, feature= 7, thr= 41.47, gain=0.309933

tree= 0, node= 77, feature=14, thr= 15.69, gain=0.261923

tree= 0, node= 78, feature=12, thr= 58.51, gain=0.234628

tree= 0, node= 79, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 80, feature= 2, thr= 72.55, gain=0.255071

tree= 0, node= 81, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node= 82, feature=13, thr= 11.29, gain=0.313865

tree= 0, node= 83, feature= 4, thr= 96.39, gain=0.213446

tree= 0, node= 84, feature= 2, thr= 28.55, gain=0.093742

tree= 0, node= 85, feature=11, thr= 28.82, gain=0.667295

tree= 0, node= 86, feature= 5, thr= 85.41, gain=0.218586

tree= 0, node= 87, feature= 4, thr= 56.86, gain=0.101305

tree= 0, node= 88, feature=12, thr= 25.31, gain=0.260494

tree= 0, node= 89, feature= 0, thr= 56.86, gain=0.685482

tree= 0, node= 90, feature= 3, thr= 88.24, gain=0.807572

tree= 0, node= 91, feature=14, thr= 1.96, gain=0.551042

tree= 0, node= 92, feature= 3, thr= 98.04, gain=0.071270

tree= 0, node= 93, feature=10, thr= 72.49, gain=0.050456

tree= 0, node= 96, feature=11, thr= 85.45, gain=0.007129

tree= 0, node= 97, feature= 9, thr= 40.24, gain=0.068315

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tree= 0, node= 99, feature= 4, thr= 21.57, gain=0.789712

tree= 0, node=100, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=101, feature= 1, thr= 99.02, gain=0.043285

tree= 0, node=102, feature= 4, thr= 79.69, gain=0.106005

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tree= 0, node=107, feature= 3, thr= 44.35, gain=0.090861

tree= 0, node=108, feature= 2, thr= 31.37, gain=0.175522

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tree= 0, node=143, feature= 7, thr= 38.22, gain=0.115580

tree= 0, node=144, feature= 0, thr= 64.71, gain=0.135493

tree= 0, node=145, feature=14, thr= 28.12, gain=0.019160

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tree= 0, node=152, feature= 2, thr= 31.18, gain=0.199274

tree= 0, node=153, feature=15, thr= 0.53, gain=0.855040

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tree= 0, node=168, feature= 0, thr= 39.22, gain=0.358068

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tree= 0, node=173, feature=15, thr= 4.31, gain=0.136149

tree= 0, node=174, feature= 3, thr= 91.84, gain=0.120934

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tree= 0, node=182, feature=15, thr= 2.16, gain=0.153911

tree= 0, node=183, feature= 7, thr= 70.59, gain=0.366115

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tree= 0, node=199, feature=10, thr= 98.35, gain=0.035455

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tree= 0, node=204, feature=11, thr= 77.47, gain=0.058376

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tree= 0, node=239, feature= 2, thr= 1.67, gain=0.039221

tree= 0, node=260, feature= 0, thr= 54.90, gain=0.701238

tree= 0, node=261, feature= 0, thr= 43.14, gain=0.113274

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tree= 0, node=286, feature= 8, thr= 61.10, gain=0.191995

tree= 0, node=287, feature= 3, thr= 95.29, gain=0.095619

tree= 0, node=288, feature= 8, thr= 75.04, gain=0.037522

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tree= 0, node=296, feature=14, thr= 47.12, gain=0.089323

tree= 0, node=297, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=304, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=305, feature= 5, thr= 70.16, gain=0.187060

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tree= 0, node=307, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=320, feature=-1, thr= -1.00, gain=-1.000000

tree= 0, node=321, feature= 8, thr= 34.31, gain=0.305023

tree= 0, node=334, feature=-1, thr= -1.00, gain=-1.000000

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tree= 0, node=337, feature= 0, thr= 49.41, gain=0.021769

tree= 0, node=338, feature=15, thr= 20.39, gain=0.204216

tree= 0, node=339, feature= 6, thr= 37.88, gain=0.267332

tree= 0, node=342, feature=15, thr= 0.00, gain=0.000000

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tree= 0, node=345, feature= 4, thr= 43.14, gain=0.597828

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tree= 0, node=364, feature= 6, thr= 93.18, gain=0.075376

tree= 0, node=365, feature= 6, thr= 78.39, gain=0.095584

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tree= 2, node=1208, feature=-1, thr= -1.00, gain=-1.000000

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tree= 2, node=1211, feature=-1, thr= -1.00, gain=-1.000000

tree= 2, node=1218, feature= 1, thr= 71.51, gain=0.212742

tree= 2, node=1219, feature=-1, thr= -1.00, gain=-1.000000

tree= 2, node=1230, feature=-1, thr= -1.00, gain=-1.000000

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tree= 2, node=1246, feature= 6, thr= 74.00, gain=0.098510

tree= 2, node=1247, feature=-1, thr= -1.00, gain=-1.000000

tree= 2, node=1268, feature= 2, thr= 67.76, gain=0.019966

tree= 2, node=1269, feature= 9, thr= 5.59, gain=0.210528

tree= 2, node=1270, feature= 5, thr= 82.75, gain=0.017107

tree= 2, node=1271, feature= 3, thr= 98.08, gain=0.083092

tree= 2, node=1278, feature= 3, thr= 90.27, gain=0.156023

tree= 2, node=1279, feature=-1, thr= -1.00, gain=-1.000000

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tree= 2, node=1518, feature= 2, thr= 35.39, gain=0.016683

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tree= 2, node=1996, feature=10, thr= 94.12, gain=0.014514

tree= 2, node=1997, feature= 5, thr= 76.29, gain=0.197738

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tree= 2, node=2319, feature= 0, thr= 43.76, gain=0.112622

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tree= 2, node=2539, feature= 8, thr= 22.51, gain=0.065426

tree= 2, node=2540, feature=10, thr= 27.45, gain=0.068415

tree= 2, node=2541, feature= 5, thr= 93.33, gain=0.013598

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tree= 2, node=3037, feature= 2, thr= 40.24, gain=0.019650

tree= 2, node=3992, feature= 8, thr= 84.41, gain=0.068105

tree= 2, node=3993, feature= 5, thr= 26.82, gain=0.048708

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tree= 2, node=4636, feature= 2, thr= 96.06, gain=0.026162

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tree= 2, node=5082, feature= 4, thr= 93.55, gain=0.023301

tree= 2, node=5083, feature= 7, thr= 81.51, gain=0.162326

tree= 2, node=5114, feature=14, thr= 35.29, gain=0.036875

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tree= 2, node=7986, feature=-1, thr= -1.00, gain=-1.000000

tree= 2, node=7987, feature= 7, thr= 55.00, gain=0.102948

tree= 2, node=9272, feature= 0, thr= 35.88, gain=0.006073

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tree= 2, node=9276, feature=-1, thr= -1.00, gain=-1.000000

tree= 2, node=9277, feature= 0, thr= 34.57, gain=0.013376

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tree= 2, node=10161, feature= 4, thr= 80.59, gain=0.119129

tree= 2, node=10164, feature= 0, thr= 3.24, gain=0.111348

tree= 2, node=10165, feature=-1, thr= -1.00, gain=-1.000000

tree= 2, node=10166, feature= 7, thr= 59.39, gain=0.155090

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tree= 2, node=10229, feature= 3, thr= 99.12, gain=0.000560

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tree= 2, node=18544, feature= 2, thr= 63.35, gain=0.016233

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tree= 2, node=18554, feature=10, thr= 99.06, gain=0.002661

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tree= 2, node=20322, feature= 7, thr= 36.33, gain=0.244910

tree= 2, node=20323, feature= 1, thr= 89.53, gain=0.033626

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tree= 2, node=20459, feature= 9, thr= 0.00, gain=0.000000

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tree= 2, node=40919, feature=13, thr= 27.35, gain=0.020615

tree= 2, node=74218, feature=-1, thr= -1.00, gain=-1.000000

tree= 2, node=74219, feature=12, thr= 38.18, gain=0.146324

tree= 2, node=81838, feature=-1, thr= -1.00, gain=-1.000000

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tree= 2, node=148438, feature=-1, thr= -1.00, gain=-1.000000

tree= 2, node=148439, feature=-1, thr= -1.00, gain=-1.000000

classification accuracy=0.8459