

demo

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1 D:\Anaconda3\envs\ADBenchpy38\python.exe D:/Projects/ADBench/demo.py
2 current noise type: None
3 {'Samples': 1831, 'Features': 21, 'Anomalies': 176, 'Anomalies Ratio(%)': 9.61}
4 Evaluating on dataset: 6_cardio
5 X_train shape: (91, 21)
6 X_test shape: (1740, 21)
7 Training size: 91, No. outliers: 1
8 2023-03-02 14:42:03.638541: I tensorflow/core/platform/cpu_feature_guard.cc:142] This
  TensorFlow binary is optimized with oneAPI Deep Neural Network Library (oneDNN) to
  use the following CPU instructions in performance-critical operations: AVX2
9 To enable them in other operations, rebuild TensorFlow with the appropriate compiler
  flags.
10 2023-03-02 14:42:03.639422: I tensorflow/core/common_runtime/process_util.cc:146]
  Creating new thread pool with default inter op setting: 2. Tune using
  inter_op_parallelism_threads for best performance.
11 2023-03-02 14:42:03.646374: I tensorflow/core/common_runtime/process_util.cc:146]
  Creating new thread pool with default inter op setting: 2. Tune using
  inter_op_parallelism_threads for best performance.
12 2023-03-02 14:42:03.683000: I tensorflow/compiler/mlir/mlir_graph_optimization_pass.
  cc:185] None of the MLIR Optimization Passes are enabled (registered 2)
13 Epoch 1/50
14 20/20 [=====] - 1s 5ms/step - loss: 2.4926
15 Epoch 2/50
16 20/20 [=====] - 0s 5ms/step - loss: 2.2834
17 Epoch 3/50
18 20/20 [=====] - 0s 5ms/step - loss: 2.0991
19 Epoch 4/50
20 20/20 [=====] - 0s 5ms/step - loss: 1.9141
21 Epoch 5/50
22 20/20 [=====] - 0s 5ms/step - loss: 1.7428
23 Epoch 6/50
24 20/20 [=====] - 0s 5ms/step - loss: 1.5626
25 Epoch 7/50
26 20/20 [=====] - 0s 5ms/step - loss: 1.3821
27 Epoch 8/50
28 20/20 [=====] - 0s 5ms/step - loss: 1.1969
29 Epoch 9/50
30 20/20 [=====] - 0s 5ms/step - loss: 0.9905
31 Epoch 10/50
32 20/20 [=====] - 0s 5ms/step - loss: 0.7758
33 Epoch 11/50
34 20/20 [=====] - 0s 5ms/step - loss: 0.6009
35 Epoch 12/50
36 20/20 [=====] - 0s 5ms/step - loss: 0.5466
37 Epoch 13/50
38 20/20 [=====] - 0s 5ms/step - loss: 0.5180
39 Epoch 14/50
40 20/20 [=====] - 0s 5ms/step - loss: 0.4983
41 Epoch 15/50
42 20/20 [=====] - 0s 5ms/step - loss: 0.4628
43 Epoch 16/50
44 20/20 [=====] - 0s 5ms/step - loss: 0.4548
45 Epoch 17/50
46 20/20 [=====] - 0s 5ms/step - loss: 0.4399
47 Epoch 18/50
48 20/20 [=====] - 0s 6ms/step - loss: 0.4273
49 Epoch 19/50
50 20/20 [=====] - 0s 5ms/step - loss: 0.4187
51 Epoch 20/50
52 20/20 [=====] - 0s 5ms/step - loss: 0.4069
53 Epoch 21/50
54 20/20 [=====] - 0s 5ms/step - loss: 0.3971
55 Epoch 22/50
56 20/20 [=====] - 0s 5ms/step - loss: 0.3873
57 Epoch 23/50
58 20/20 [=====] - 0s 5ms/step - loss: 0.3757
59 Epoch 24/50
60 20/20 [=====] - 0s 5ms/step - loss: 0.3559
61 Epoch 25/50
62 20/20 [=====] - 0s 5ms/step - loss: 0.3533
63 Epoch 26/50
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64 20/20 [=====] - 0s 5ms/step - loss: 0.3427
65 Epoch 27/50
66 20/20 [=====] - 0s 5ms/step - loss: 0.3341
67 Epoch 28/50
68 20/20 [=====] - 0s 5ms/step - loss: 0.3203
69 Epoch 29/50
70 20/20 [=====] - 0s 5ms/step - loss: 0.3096
71 Epoch 30/50
72 20/20 [=====] - 0s 5ms/step - loss: 0.3085
73 Epoch 31/50
74 20/20 [=====] - 0s 5ms/step - loss: 0.3043
75 Epoch 32/50
76 20/20 [=====] - 0s 5ms/step - loss: 0.2933
77 Epoch 33/50
78 20/20 [=====] - 0s 5ms/step - loss: 0.2869
79 Epoch 34/50
80 20/20 [=====] - 0s 5ms/step - loss: 0.2840
81 Epoch 35/50
82 20/20 [=====] - 0s 5ms/step - loss: 0.2739
83 Epoch 36/50
84 20/20 [=====] - 0s 5ms/step - loss: 0.2712
85 Epoch 37/50
86 20/20 [=====] - 0s 5ms/step - loss: 0.2656
87 Epoch 38/50
88 20/20 [=====] - 0s 5ms/step - loss: 0.2573
89 Epoch 39/50
90 20/20 [=====] - 0s 5ms/step - loss: 0.2554
91 Epoch 40/50
92 20/20 [=====] - 0s 5ms/step - loss: 0.2519
93 Epoch 41/50
94 20/20 [=====] - 0s 5ms/step - loss: 0.2451
95 Epoch 42/50
96 20/20 [=====] - 0s 5ms/step - loss: 0.2406
97 Epoch 43/50
98 20/20 [=====] - 0s 5ms/step - loss: 0.2469
99 Epoch 44/50
100 20/20 [=====] - 0s 5ms/step - loss: 0.2364
101 Epoch 45/50
102 20/20 [=====] - 0s 5ms/step - loss: 0.2340
103 Epoch 46/50
104 20/20 [=====] - 0s 5ms/step - loss: 0.2314
105 Epoch 47/50
106 20/20 [=====] - 0s 5ms/step - loss: 0.2305
107 Epoch 48/50
108 20/20 [=====] - 0s 5ms/step - loss: 0.2228
109 Epoch 49/50
110 20/20 [=====] - 0s 5ms/step - loss: 0.2254
111 Epoch 50/50
112 20/20 [=====] - 0s 5ms/step - loss: 0.2196
113 Learning rate set to 0.003702
114 0: learn: 0.6858849 total: 139msremaining: 2m 19s
115 1: learn: 0.6809705 total: 142msremaining: 1m 11s
116 2: learn: 0.6747768 total: 145msremaining: 48.2s
117 3: learn: 0.6694810 total: 148msremaining: 36.8s
118 4: learn: 0.6635224 total: 151msremaining: 29.9s
119 5: learn: 0.6575255 total: 153msremaining: 25.3s
120 6: learn: 0.6523733 total: 155msremaining: 22s
121 7: learn: 0.6467190 total: 157msremaining: 19.4s
122 8: learn: 0.6405159 total: 159msremaining: 17.5s
123 9: learn: 0.6356257 total: 160msremaining: 15.9s
124 10: learn: 0.6290305 total: 162msremaining: 14.5s
125 11: learn: 0.6239653 total: 163msremaining: 13.4s
126 12: learn: 0.6197111 total: 165msremaining: 12.5s
127 13: learn: 0.6150799 total: 167msremaining: 11.7s
128 14: learn: 0.6098984 total: 168msremaining: 11s
129 15: learn: 0.6057505 total: 169msremaining: 10.4s
130 16: learn: 0.6014721 total: 171msremaining: 9.87s
131 17: learn: 0.5968966 total: 172msremaining: 9.38s
132 18: learn: 0.5914782 total: 173msremaining: 8.93s
133 19: learn: 0.5853298 total: 174msremaining: 8.53s
134 20: learn: 0.5805087 total: 175msremaining: 8.16s
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135	21:	learn:	0.5758259	total:	176msremaining:	7.82s
136	22:	learn:	0.5712797	total:	177msremaining:	7.51s
137	23:	learn:	0.5670685	total:	178msremaining:	7.23s
138	24:	learn:	0.5628161	total:	179msremaining:	6.97s
139	25:	learn:	0.5592411	total:	180msremaining:	6.73s
140	26:	learn:	0.5530940	total:	180msremaining:	6.5s
141	27:	learn:	0.5486256	total:	181msremaining:	6.29s
142	28:	learn:	0.5442905	total:	182msremaining:	6.09s
143	29:	learn:	0.5399004	total:	183msremaining:	5.91s
144	30:	learn:	0.5349973	total:	183msremaining:	5.73s
145	31:	learn:	0.5312669	total:	184msremaining:	5.56s
146	32:	learn:	0.5271794	total:	185msremaining:	5.41s
147	33:	learn:	0.5224027	total:	185msremaining:	5.27s
148	34:	learn:	0.5170487	total:	186msremaining:	5.13s
149	35:	learn:	0.5124494	total:	187msremaining:	5s
150	36:	learn:	0.5080081	total:	187msremaining:	4.87s
151	37:	learn:	0.5031807	total:	188msremaining:	4.76s
152	38:	learn:	0.4995514	total:	189msremaining:	4.65s
153	39:	learn:	0.4954273	total:	189msremaining:	4.55s
154	40:	learn:	0.4908230	total:	190msremaining:	4.45s
155	41:	learn:	0.4874903	total:	191msremaining:	4.35s
156	42:	learn:	0.4822453	total:	191msremaining:	4.26s
157	43:	learn:	0.4779339	total:	192msremaining:	4.17s
158	44:	learn:	0.4751780	total:	193msremaining:	4.09s
159	45:	learn:	0.4717634	total:	193msremaining:	4.01s
160	46:	learn:	0.4682488	total:	194msremaining:	3.94s
161	47:	learn:	0.4652850	total:	195msremaining:	3.86s
162	48:	learn:	0.4618633	total:	195msremaining:	3.79s
163	49:	learn:	0.4584869	total:	196msremaining:	3.73s
164	50:	learn:	0.4559636	total:	197msremaining:	3.66s
165	51:	learn:	0.4524832	total:	198msremaining:	3.6s
166	52:	learn:	0.4497062	total:	198msremaining:	3.54s
167	53:	learn:	0.4460594	total:	199msremaining:	3.49s
168	54:	learn:	0.4426955	total:	200msremaining:	3.44s
169	55:	learn:	0.4390683	total:	201msremaining:	3.38s
170	56:	learn:	0.4358144	total:	201msremaining:	3.33s
171	57:	learn:	0.4327634	total:	202msremaining:	3.28s
172	58:	learn:	0.4289490	total:	203msremaining:	3.23s
173	59:	learn:	0.4259603	total:	203msremaining:	3.19s
174	60:	learn:	0.4223269	total:	204msremaining:	3.14s
175	61:	learn:	0.4187623	total:	205msremaining:	3.1s
176	62:	learn:	0.4162764	total:	205msremaining:	3.05s
177	63:	learn:	0.4137089	total:	206msremaining:	3.01s
178	64:	learn:	0.4109066	total:	207msremaining:	2.97s
179	65:	learn:	0.4076185	total:	207msremaining:	2.94s
180	66:	learn:	0.4052927	total:	208msremaining:	2.9s
181	67:	learn:	0.4027090	total:	209msremaining:	2.86s
182	68:	learn:	0.3989074	total:	209msremaining:	2.82s
183	69:	learn:	0.3958352	total:	210msremaining:	2.79s
184	70:	learn:	0.3924655	total:	211msremaining:	2.76s
185	71:	learn:	0.3900321	total:	211msremaining:	2.72s
186	72:	learn:	0.3873293	total:	212msremaining:	2.69s
187	73:	learn:	0.3846085	total:	213msremaining:	2.66s
188	74:	learn:	0.3818130	total:	213msremaining:	2.63s
189	75:	learn:	0.3785786	total:	214msremaining:	2.6s
190	76:	learn:	0.3759760	total:	215msremaining:	2.57s
191	77:	learn:	0.3726948	total:	215msremaining:	2.54s
192	78:	learn:	0.3697418	total:	216msremaining:	2.52s
193	79:	learn:	0.3666261	total:	217msremaining:	2.49s
194	80:	learn:	0.3634216	total:	217msremaining:	2.46s
195	81:	learn:	0.3606126	total:	218msremaining:	2.44s
196	82:	learn:	0.3578622	total:	218msremaining:	2.41s
197	83:	learn:	0.3558453	total:	219msremaining:	2.39s
198	84:	learn:	0.3532245	total:	220msremaining:	2.37s
199	85:	learn:	0.3504343	total:	220msremaining:	2.34s
200	86:	learn:	0.3475589	total:	221msremaining:	2.32s
201	87:	learn:	0.3432539	total:	221msremaining:	2.29s
202	88:	learn:	0.3407453	total:	222msremaining:	2.27s
203	89:	learn:	0.3386826	total:	223msremaining:	2.25s
204	90:	learn:	0.3357930	total:	224msremaining:	2.23s
205	91:	learn:	0.3340264	total:	224msremaining:	2.21s

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206	92:	learn:	0.3320779	total:	225msremaining:	2.19s
207	93:	learn:	0.3295828	total:	226msremaining:	2.18s
208	94:	learn:	0.3266773	total:	226msremaining:	2.16s
209	95:	learn:	0.3249037	total:	227msremaining:	2.14s
210	96:	learn:	0.3225041	total:	228msremaining:	2.12s
211	97:	learn:	0.3195215	total:	229msremaining:	2.1s
212	98:	learn:	0.3171030	total:	229msremaining:	2.08s
213	99:	learn:	0.3149770	total:	230msremaining:	2.07s
214	100:	learn:	0.3132720	total:	231msremaining:	2.05s
215	101:	learn:	0.3112884	total:	231msremaining:	2.04s
216	102:	learn:	0.3093716	total:	232msremaining:	2.02s
217	103:	learn:	0.3073255	total:	232msremaining:	2s
218	104:	learn:	0.3055301	total:	233msremaining:	1.99s
219	105:	learn:	0.3036524	total:	234msremaining:	1.97s
220	106:	learn:	0.3019199	total:	234msremaining:	1.96s
221	107:	learn:	0.3003116	total:	235msremaining:	1.94s
222	108:	learn:	0.2979082	total:	236msremaining:	1.93s
223	109:	learn:	0.2949578	total:	237msremaining:	1.91s
224	110:	learn:	0.2926851	total:	237msremaining:	1.9s
225	111:	learn:	0.2906129	total:	238msremaining:	1.89s
226	112:	learn:	0.2887676	total:	239msremaining:	1.87s
227	113:	learn:	0.2869600	total:	239msremaining:	1.86s
228	114:	learn:	0.2851105	total:	240msremaining:	1.85s
229	115:	learn:	0.2833629	total:	241msremaining:	1.83s
230	116:	learn:	0.2815111	total:	241msremaining:	1.82s
231	117:	learn:	0.2798229	total:	242msremaining:	1.81s
232	118:	learn:	0.2779919	total:	243msremaining:	1.8s
233	119:	learn:	0.2759521	total:	243msremaining:	1.78s
234	120:	learn:	0.2738363	total:	244msremaining:	1.77s
235	121:	learn:	0.2724236	total:	245msremaining:	1.76s
236	122:	learn:	0.2706471	total:	246msremaining:	1.75s
237	123:	learn:	0.2685218	total:	246msremaining:	1.74s
238	124:	learn:	0.2656293	total:	247msremaining:	1.73s
239	125:	learn:	0.2640402	total:	248msremaining:	1.72s
240	126:	learn:	0.2624905	total:	248msremaining:	1.71s
241	127:	learn:	0.2610860	total:	249msremaining:	1.69s
242	128:	learn:	0.2592955	total:	249msremaining:	1.68s
243	129:	learn:	0.2575023	total:	250msremaining:	1.67s
244	130:	learn:	0.2559257	total:	251msremaining:	1.66s
245	131:	learn:	0.2542852	total:	252msremaining:	1.65s
246	132:	learn:	0.2527273	total:	252msremaining:	1.64s
247	133:	learn:	0.2511937	total:	253msremaining:	1.64s
248	134:	learn:	0.2497225	total:	254msremaining:	1.63s
249	135:	learn:	0.2475568	total:	255msremaining:	1.62s
250	136:	learn:	0.2460863	total:	255msremaining:	1.61s
251	137:	learn:	0.2445344	total:	256msremaining:	1.6s
252	138:	learn:	0.2429455	total:	257msremaining:	1.59s
253	139:	learn:	0.2416478	total:	257msremaining:	1.58s
254	140:	learn:	0.2394862	total:	258msremaining:	1.57s
255	141:	learn:	0.2379158	total:	259msremaining:	1.56s
256	142:	learn:	0.2363071	total:	259msremaining:	1.55s
257	143:	learn:	0.2345911	total:	260msremaining:	1.54s
258	144:	learn:	0.2324923	total:	261msremaining:	1.54s
259	145:	learn:	0.2308713	total:	261msremaining:	1.53s
260	146:	learn:	0.2292868	total:	262msremaining:	1.52s
261	147:	learn:	0.2277886	total:	263msremaining:	1.51s
262	148:	learn:	0.2267338	total:	263msremaining:	1.5s
263	149:	learn:	0.2251308	total:	264msremaining:	1.5s
264	150:	learn:	0.2234403	total:	265msremaining:	1.49s
265	151:	learn:	0.2218278	total:	265msremaining:	1.48s
266	152:	learn:	0.2206401	total:	266msremaining:	1.47s
267	153:	learn:	0.2190595	total:	267msremaining:	1.47s
268	154:	learn:	0.2178331	total:	267msremaining:	1.46s
269	155:	learn:	0.2156185	total:	268msremaining:	1.45s
270	156:	learn:	0.2144495	total:	269msremaining:	1.44s
271	157:	learn:	0.2131407	total:	270msremaining:	1.44s
272	158:	learn:	0.2120698	total:	270msremaining:	1.43s
273	159:	learn:	0.2106775	total:	271msremaining:	1.42s
274	160:	learn:	0.2094226	total:	272msremaining:	1.42s
275	161:	learn:	0.2081674	total:	272msremaining:	1.41s
276	162:	learn:	0.2063212	total:	273msremaining:	1.4s

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277	163: learn: 0.2051478	total: 274msremaining: 1.39s
278	164: learn: 0.2041702	total: 274msremaining: 1.39s
279	165: learn: 0.2025316	total: 275msremaining: 1.38s
280	166: learn: 0.2014009	total: 276msremaining: 1.38s
281	167: learn: 0.2001751	total: 276msremaining: 1.37s
282	168: learn: 0.1986450	total: 277msremaining: 1.36s
283	169: learn: 0.1971287	total: 278msremaining: 1.36s
284	170: learn: 0.1956913	total: 279msremaining: 1.35s
285	171: learn: 0.1944464	total: 279msremaining: 1.34s
286	172: learn: 0.1936532	total: 280msremaining: 1.34s
287	173: learn: 0.1924781	total: 281msremaining: 1.33s
288	174: learn: 0.1913657	total: 281msremaining: 1.33s
289	175: learn: 0.1897972	total: 282msremaining: 1.32s
290	176: learn: 0.1886970	total: 283msremaining: 1.31s
291	177: learn: 0.1876574	total: 284msremaining: 1.31s
292	178: learn: 0.1865006	total: 284msremaining: 1.3s
293	179: learn: 0.1853199	total: 285msremaining: 1.3s
294	180: learn: 0.1841191	total: 285msremaining: 1.29s
295	181: learn: 0.1830080	total: 286msremaining: 1.28s
296	182: learn: 0.1817987	total: 287msremaining: 1.28s
297	183: learn: 0.1806151	total: 287msremaining: 1.27s
298	184: learn: 0.1792618	total: 288msremaining: 1.27s
299	185: learn: 0.1783594	total: 289msremaining: 1.26s
300	186: learn: 0.1771925	total: 290msremaining: 1.26s
301	187: learn: 0.1762144	total: 290msremaining: 1.25s
302	188: learn: 0.1749963	total: 291msremaining: 1.25s
303	189: learn: 0.1740792	total: 292msremaining: 1.24s
304	190: learn: 0.1729732	total: 292msremaining: 1.24s
305	191: learn: 0.1721306	total: 293msremaining: 1.23s
306	192: learn: 0.1713845	total: 294msremaining: 1.23s
307	193: learn: 0.1702262	total: 294msremaining: 1.22s
308	194: learn: 0.1691485	total: 295msremaining: 1.22s
309	195: learn: 0.1681117	total: 295msremaining: 1.21s
310	196: learn: 0.1672683	total: 296msremaining: 1.21s
311	197: learn: 0.1665107	total: 297msremaining: 1.2s
312	198: learn: 0.1652592	total: 298msremaining: 1.2s
313	199: learn: 0.1642650	total: 298msremaining: 1.19s
314	200: learn: 0.1631613	total: 299msremaining: 1.19s
315	201: learn: 0.1617966	total: 299msremaining: 1.18s
316	202: learn: 0.1608553	total: 300msremaining: 1.18s
317	203: learn: 0.1600455	total: 301msremaining: 1.17s
318	204: learn: 0.1591875	total: 301msremaining: 1.17s
319	205: learn: 0.1579957	total: 302msremaining: 1.16s
320	206: learn: 0.1572195	total: 303msremaining: 1.16s
321	207: learn: 0.1565674	total: 303msremaining: 1.16s
322	208: learn: 0.1558333	total: 304msremaining: 1.15s
323	209: learn: 0.1550726	total: 305msremaining: 1.15s
324	210: learn: 0.1543545	total: 305msremaining: 1.14s
325	211: learn: 0.1536446	total: 306msremaining: 1.14s
326	212: learn: 0.1525374	total: 307msremaining: 1.13s
327	213: learn: 0.1517543	total: 307msremaining: 1.13s
328	214: learn: 0.1509678	total: 308msremaining: 1.12s
329	215: learn: 0.1502038	total: 309msremaining: 1.12s
330	216: learn: 0.1492701	total: 309msremaining: 1.12s
331	217: learn: 0.1485671	total: 310msremaining: 1.11s
332	218: learn: 0.1480518	total: 311msremaining: 1.11s
333	219: learn: 0.1474234	total: 312msremaining: 1.1s
334	220: learn: 0.1468232	total: 312msremaining: 1.1s
335	221: learn: 0.1461974	total: 313msremaining: 1.1s
336	222: learn: 0.1455460	total: 313msremaining: 1.09s
337	223: learn: 0.1447984	total: 314msremaining: 1.09s
338	224: learn: 0.1441534	total: 315msremaining: 1.08s
339	225: learn: 0.1435828	total: 316msremaining: 1.08s
340	226: learn: 0.1427026	total: 316msremaining: 1.08s
341	227: learn: 0.1417409	total: 317msremaining: 1.07s
342	228: learn: 0.1407878	total: 318msremaining: 1.07s
343	229: learn: 0.1400774	total: 318msremaining: 1.06s
344	230: learn: 0.1392768	total: 319msremaining: 1.06s
345	231: learn: 0.1380281	total: 320msremaining: 1.06s
346	232: learn: 0.1372416	total: 320msremaining: 1.05s
347	233: learn: 0.1367065	total: 321msremaining: 1.05s

demo

348	234: learn: 0.1356168	total: 321msremaining: 1.05s
349	235: learn: 0.1348445	total: 322msremaining: 1.04s
350	236: learn: 0.1341697	total: 323msremaining: 1.04s
351	237: learn: 0.1334936	total: 324msremaining: 1.03s
352	238: learn: 0.1329542	total: 324msremaining: 1.03s
353	239: learn: 0.1322564	total: 325msremaining: 1.03s
354	240: learn: 0.1313877	total: 326msremaining: 1.02s
355	241: learn: 0.1307684	total: 326msremaining: 1.02s
356	242: learn: 0.1300927	total: 327msremaining: 1.02s
357	243: learn: 0.1292415	total: 327msremaining: 1.01s
358	244: learn: 0.1287425	total: 328msremaining: 1.01s
359	245: learn: 0.1282395	total: 329msremaining: 1.01s
360	246: learn: 0.1274950	total: 329msremaining: 1s
361	247: learn: 0.1268371	total: 330msremaining: 1s
362	248: learn: 0.1260605	total: 331msremaining: 998ms
363	249: learn: 0.1253656	total: 331msremaining: 994ms
364	250: learn: 0.1247156	total: 332msremaining: 991ms
365	251: learn: 0.1240769	total: 333msremaining: 988ms
366	252: learn: 0.1233932	total: 333msremaining: 984ms
367	253: learn: 0.1226688	total: 334msremaining: 981ms
368	254: learn: 0.1220824	total: 335msremaining: 978ms
369	255: learn: 0.1213941	total: 335msremaining: 975ms
370	256: learn: 0.1207578	total: 336msremaining: 972ms
371	257: learn: 0.1200337	total: 337msremaining: 969ms
372	258: learn: 0.1193364	total: 337msremaining: 965ms
373	259: learn: 0.1187796	total: 338msremaining: 962ms
374	260: learn: 0.1183209	total: 339msremaining: 959ms
375	261: learn: 0.1176237	total: 340msremaining: 956ms
376	262: learn: 0.1170253	total: 340msremaining: 954ms
377	263: learn: 0.1164963	total: 341msremaining: 951ms
378	264: learn: 0.1160673	total: 342msremaining: 948ms
379	265: learn: 0.1155601	total: 342msremaining: 945ms
380	266: learn: 0.1151373	total: 343msremaining: 942ms
381	267: learn: 0.1144941	total: 344msremaining: 939ms
382	268: learn: 0.1137877	total: 345msremaining: 936ms
383	269: learn: 0.1132869	total: 345msremaining: 933ms
384	270: learn: 0.1128310	total: 346msremaining: 931ms
385	271: learn: 0.1123159	total: 347msremaining: 928ms
386	272: learn: 0.1116947	total: 347msremaining: 925ms
387	273: learn: 0.1110289	total: 348msremaining: 922ms
388	274: learn: 0.1103627	total: 349msremaining: 920ms
389	275: learn: 0.1095789	total: 350msremaining: 917ms
390	276: learn: 0.1089596	total: 350msremaining: 914ms
391	277: learn: 0.1086095	total: 351msremaining: 912ms
392	278: learn: 0.1081879	total: 352msremaining: 909ms
393	279: learn: 0.1076905	total: 352msremaining: 906ms
394	280: learn: 0.1072555	total: 353msremaining: 903ms
395	281: learn: 0.1067683	total: 354msremaining: 901ms
396	282: learn: 0.1061673	total: 355msremaining: 898ms
397	283: learn: 0.1056754	total: 355msremaining: 896ms
398	284: learn: 0.1049123	total: 356msremaining: 893ms
399	285: learn: 0.1043568	total: 357msremaining: 891ms
400	286: learn: 0.1039053	total: 358msremaining: 889ms
401	287: learn: 0.1034939	total: 359msremaining: 886ms
402	288: learn: 0.1029666	total: 359msremaining: 884ms
403	289: learn: 0.1022958	total: 360msremaining: 881ms
404	290: learn: 0.1019208	total: 361msremaining: 879ms
405	291: learn: 0.1012701	total: 362msremaining: 877ms
406	292: learn: 0.1005555	total: 362msremaining: 874ms
407	293: learn: 0.1002979	total: 363msremaining: 872ms
408	294: learn: 0.0997550	total: 364msremaining: 869ms
409	295: learn: 0.0993317	total: 364msremaining: 867ms
410	296: learn: 0.0987900	total: 365msremaining: 864ms
411	297: learn: 0.0983740	total: 366msremaining: 862ms
412	298: learn: 0.0978716	total: 366msremaining: 859ms
413	299: learn: 0.0973547	total: 367msremaining: 857ms
414	300: learn: 0.0967725	total: 368msremaining: 854ms
415	301: learn: 0.0963621	total: 368msremaining: 852ms
416	302: learn: 0.0958972	total: 369msremaining: 849ms
417	303: learn: 0.0954898	total: 370msremaining: 847ms
418	304: learn: 0.0949999	total: 370msremaining: 844ms

demo

419	305: learn: 0.0946916	total: 371msremaining: 842ms
420	306: learn: 0.0942867	total: 372msremaining: 839ms
421	307: learn: 0.0937988	total: 372msremaining: 837ms
422	308: learn: 0.0933901	total: 373msremaining: 834ms
423	309: learn: 0.0930736	total: 374msremaining: 832ms
424	310: learn: 0.0926449	total: 374msremaining: 829ms
425	311: learn: 0.0921526	total: 375msremaining: 827ms
426	312: learn: 0.0916888	total: 376msremaining: 825ms
427	313: learn: 0.0912586	total: 376msremaining: 822ms
428	314: learn: 0.0908389	total: 377msremaining: 820ms
429	315: learn: 0.0904510	total: 378msremaining: 818ms
430	316: learn: 0.0900737	total: 378msremaining: 815ms
431	317: learn: 0.0897746	total: 379msremaining: 813ms
432	318: learn: 0.0894680	total: 380msremaining: 811ms
433	319: learn: 0.0891039	total: 380msremaining: 808ms
434	320: learn: 0.0887374	total: 381msremaining: 806ms
435	321: learn: 0.0882215	total: 382msremaining: 803ms
436	322: learn: 0.0879658	total: 382msremaining: 801ms
437	323: learn: 0.0876386	total: 383msremaining: 799ms
438	324: learn: 0.0871410	total: 384msremaining: 797ms
439	325: learn: 0.0868169	total: 384msremaining: 795ms
440	326: learn: 0.0863254	total: 385msremaining: 793ms
441	327: learn: 0.0858757	total: 386msremaining: 791ms
442	328: learn: 0.0853875	total: 386msremaining: 788ms
443	329: learn: 0.0851305	total: 387msremaining: 786ms
444	330: learn: 0.0847829	total: 388msremaining: 784ms
445	331: learn: 0.0843910	total: 389msremaining: 782ms
446	332: learn: 0.0839756	total: 389msremaining: 780ms
447	333: learn: 0.0835581	total: 390msremaining: 778ms
448	334: learn: 0.0832127	total: 391msremaining: 775ms
449	335: learn: 0.0829066	total: 391msremaining: 773ms
450	336: learn: 0.0825346	total: 392msremaining: 771ms
451	337: learn: 0.0822935	total: 393msremaining: 769ms
452	338: learn: 0.0819830	total: 393msremaining: 767ms
453	339: learn: 0.0814963	total: 394msremaining: 765ms
454	340: learn: 0.0812358	total: 395msremaining: 763ms
455	341: learn: 0.0809016	total: 395msremaining: 761ms
456	342: learn: 0.0807159	total: 396msremaining: 758ms
457	343: learn: 0.0802520	total: 396msremaining: 756ms
458	344: learn: 0.0797872	total: 397msremaining: 754ms
459	345: learn: 0.0794894	total: 398msremaining: 752ms
460	346: learn: 0.0791784	total: 399msremaining: 750ms
461	347: learn: 0.0788126	total: 399msremaining: 748ms
462	348: learn: 0.0784795	total: 400msremaining: 746ms
463	349: learn: 0.0781369	total: 401msremaining: 745ms
464	350: learn: 0.0777557	total: 402msremaining: 743ms
465	351: learn: 0.0775353	total: 402msremaining: 741ms
466	352: learn: 0.0771641	total: 403msremaining: 739ms
467	353: learn: 0.0768417	total: 404msremaining: 737ms
468	354: learn: 0.0766235	total: 405msremaining: 735ms
469	355: learn: 0.0763383	total: 406msremaining: 734ms
470	356: learn: 0.0760202	total: 406msremaining: 732ms
471	357: learn: 0.0756938	total: 407msremaining: 730ms
472	358: learn: 0.0753769	total: 408msremaining: 728ms
473	359: learn: 0.0750562	total: 408msremaining: 726ms
474	360: learn: 0.0747827	total: 409msremaining: 724ms
475	361: learn: 0.0743721	total: 410msremaining: 722ms
476	362: learn: 0.0741128	total: 410msremaining: 720ms
477	363: learn: 0.0738255	total: 411msremaining: 718ms
478	364: learn: 0.0734864	total: 412msremaining: 717ms
479	365: learn: 0.0731915	total: 412msremaining: 715ms
480	366: learn: 0.0727981	total: 413msremaining: 713ms
481	367: learn: 0.0724424	total: 414msremaining: 711ms
482	368: learn: 0.0722414	total: 415msremaining: 710ms
483	369: learn: 0.0719015	total: 416msremaining: 708ms
484	370: learn: 0.0716241	total: 416msremaining: 706ms
485	371: learn: 0.0713380	total: 417msremaining: 704ms
486	372: learn: 0.0710301	total: 418msremaining: 702ms
487	373: learn: 0.0707870	total: 419msremaining: 701ms
488	374: learn: 0.0705533	total: 419msremaining: 699ms
489	375: learn: 0.0701948	total: 420msremaining: 697ms

demo

490	376: learn: 0.0698894	total: 421msremaining: 695ms
491	377: learn: 0.0696508	total: 421msremaining: 693ms
492	378: learn: 0.0691892	total: 422msremaining: 692ms
493	379: learn: 0.0689118	total: 423msremaining: 690ms
494	380: learn: 0.0686581	total: 424msremaining: 688ms
495	381: learn: 0.0684688	total: 424msremaining: 686ms
496	382: learn: 0.0681448	total: 425msremaining: 685ms
497	383: learn: 0.0678886	total: 426msremaining: 683ms
498	384: learn: 0.0676474	total: 426msremaining: 681ms
499	385: learn: 0.0674229	total: 427msremaining: 679ms
500	386: learn: 0.0671938	total: 428msremaining: 678ms
501	387: learn: 0.0669493	total: 428msremaining: 676ms
502	388: learn: 0.0666783	total: 429msremaining: 674ms
503	389: learn: 0.0664360	total: 430msremaining: 673ms
504	390: learn: 0.0662412	total: 431msremaining: 671ms
505	391: learn: 0.0659923	total: 431msremaining: 669ms
506	392: learn: 0.0657785	total: 432msremaining: 668ms
507	393: learn: 0.0654838	total: 433msremaining: 666ms
508	394: learn: 0.0651645	total: 434msremaining: 664ms
509	395: learn: 0.0648855	total: 434msremaining: 662ms
510	396: learn: 0.0647246	total: 435msremaining: 661ms
511	397: learn: 0.0645320	total: 436msremaining: 659ms
512	398: learn: 0.0643392	total: 436msremaining: 657ms
513	399: learn: 0.0640320	total: 437msremaining: 655ms
514	400: learn: 0.0637983	total: 438msremaining: 654ms
515	401: learn: 0.0635095	total: 438msremaining: 652ms
516	402: learn: 0.0632989	total: 439msremaining: 650ms
517	403: learn: 0.0630017	total: 440msremaining: 649ms
518	404: learn: 0.0628072	total: 440msremaining: 647ms
519	405: learn: 0.0625350	total: 441msremaining: 645ms
520	406: learn: 0.0622666	total: 442msremaining: 643ms
521	407: learn: 0.0620530	total: 442msremaining: 642ms
522	408: learn: 0.0618628	total: 443msremaining: 640ms
523	409: learn: 0.0616535	total: 444msremaining: 639ms
524	410: learn: 0.0613428	total: 444msremaining: 637ms
525	411: learn: 0.0610831	total: 445msremaining: 635ms
526	412: learn: 0.0608968	total: 446msremaining: 634ms
527	413: learn: 0.0606180	total: 446msremaining: 632ms
528	414: learn: 0.0603375	total: 447msremaining: 630ms
529	415: learn: 0.0601359	total: 448msremaining: 628ms
530	416: learn: 0.0597230	total: 448msremaining: 626ms
531	417: learn: 0.0595276	total: 449msremaining: 625ms
532	418: learn: 0.0592941	total: 449msremaining: 623ms
533	419: learn: 0.0591374	total: 450msremaining: 622ms
534	420: learn: 0.0589350	total: 451msremaining: 620ms
535	421: learn: 0.0586464	total: 452msremaining: 618ms
536	422: learn: 0.0583143	total: 452msremaining: 617ms
537	423: learn: 0.0580944	total: 453msremaining: 615ms
538	424: learn: 0.0578982	total: 454msremaining: 614ms
539	425: learn: 0.0577252	total: 454msremaining: 612ms
540	426: learn: 0.0574577	total: 455msremaining: 611ms
541	427: learn: 0.0572717	total: 456msremaining: 609ms
542	428: learn: 0.0570259	total: 456msremaining: 607ms
543	429: learn: 0.0569272	total: 457msremaining: 606ms
544	430: learn: 0.0567183	total: 458msremaining: 604ms
545	431: learn: 0.0564487	total: 458msremaining: 603ms
546	432: learn: 0.0562742	total: 459msremaining: 601ms
547	433: learn: 0.0560431	total: 460msremaining: 600ms
548	434: learn: 0.0558889	total: 460msremaining: 598ms
549	435: learn: 0.0557243	total: 461msremaining: 597ms
550	436: learn: 0.0555592	total: 462msremaining: 595ms
551	437: learn: 0.0554119	total: 462msremaining: 593ms
552	438: learn: 0.0552187	total: 463msremaining: 592ms
553	439: learn: 0.0550175	total: 464msremaining: 590ms
554	440: learn: 0.0547142	total: 465msremaining: 589ms
555	441: learn: 0.0545321	total: 465msremaining: 587ms
556	442: learn: 0.0541477	total: 466msremaining: 586ms
557	443: learn: 0.0539231	total: 467msremaining: 584ms
558	444: learn: 0.0537389	total: 467msremaining: 583ms
559	445: learn: 0.0535971	total: 468msremaining: 581ms
560	446: learn: 0.0534515	total: 469msremaining: 580ms

demo

561	447: learn: 0.0532277	total: 469msremaining: 578ms
562	448: learn: 0.0530559	total: 470msremaining: 577ms
563	449: learn: 0.0528825	total: 471msremaining: 575ms
564	450: learn: 0.0527350	total: 471msremaining: 574ms
565	451: learn: 0.0525416	total: 472msremaining: 572ms
566	452: learn: 0.0523945	total: 473msremaining: 571ms
567	453: learn: 0.0522334	total: 474msremaining: 570ms
568	454: learn: 0.0520750	total: 474msremaining: 568ms
569	455: learn: 0.0519173	total: 475msremaining: 567ms
570	456: learn: 0.0517503	total: 476msremaining: 565ms
571	457: learn: 0.0515724	total: 476msremaining: 564ms
572	458: learn: 0.0512341	total: 477msremaining: 562ms
573	459: learn: 0.0510632	total: 477msremaining: 560ms
574	460: learn: 0.0508303	total: 478msremaining: 559ms
575	461: learn: 0.0506402	total: 479msremaining: 558ms
576	462: learn: 0.0504709	total: 479msremaining: 556ms
577	463: learn: 0.0502829	total: 480msremaining: 555ms
578	464: learn: 0.0501113	total: 481msremaining: 553ms
579	465: learn: 0.0499604	total: 482msremaining: 552ms
580	466: learn: 0.0497494	total: 482msremaining: 550ms
581	467: learn: 0.0495596	total: 483msremaining: 549ms
582	468: learn: 0.0494374	total: 484msremaining: 548ms
583	469: learn: 0.0493373	total: 485msremaining: 546ms
584	470: learn: 0.0492073	total: 485msremaining: 545ms
585	471: learn: 0.0490360	total: 486msremaining: 544ms
586	472: learn: 0.0488979	total: 487msremaining: 542ms
587	473: learn: 0.0486876	total: 488msremaining: 541ms
588	474: learn: 0.0485623	total: 488msremaining: 540ms
589	475: learn: 0.0484215	total: 489msremaining: 538ms
590	476: learn: 0.0482843	total: 490msremaining: 537ms
591	477: learn: 0.0481248	total: 490msremaining: 535ms
592	478: learn: 0.0479463	total: 491msremaining: 534ms
593	479: learn: 0.0477986	total: 492msremaining: 533ms
594	480: learn: 0.0476598	total: 492msremaining: 531ms
595	481: learn: 0.0475290	total: 493msremaining: 530ms
596	482: learn: 0.0473957	total: 494msremaining: 528ms
597	483: learn: 0.0470698	total: 494msremaining: 527ms
598	484: learn: 0.0469641	total: 495msremaining: 525ms
599	485: learn: 0.0468111	total: 495msremaining: 524ms
600	486: learn: 0.0466507	total: 496msremaining: 523ms
601	487: learn: 0.0465210	total: 497msremaining: 521ms
602	488: learn: 0.0463907	total: 498msremaining: 520ms
603	489: learn: 0.0461819	total: 498msremaining: 518ms
604	490: learn: 0.0460170	total: 499msremaining: 517ms
605	491: learn: 0.0458281	total: 500msremaining: 516ms
606	492: learn: 0.0456978	total: 500msremaining: 514ms
607	493: learn: 0.0455539	total: 501msremaining: 513ms
608	494: learn: 0.0454174	total: 502msremaining: 512ms
609	495: learn: 0.0452545	total: 502msremaining: 510ms
610	496: learn: 0.0450537	total: 503msremaining: 509ms
611	497: learn: 0.0448954	total: 504msremaining: 508ms
612	498: learn: 0.0448133	total: 504msremaining: 506ms
613	499: learn: 0.0446673	total: 505msremaining: 505ms
614	500: learn: 0.0445203	total: 506msremaining: 504ms
615	501: learn: 0.0444060	total: 506msremaining: 502ms
616	502: learn: 0.0442773	total: 507msremaining: 501ms
617	503: learn: 0.0441400	total: 508msremaining: 500ms
618	504: learn: 0.0439874	total: 508msremaining: 498ms
619	505: learn: 0.0438976	total: 509msremaining: 497ms
620	506: learn: 0.0437785	total: 510msremaining: 496ms
621	507: learn: 0.0436554	total: 510msremaining: 494ms
622	508: learn: 0.0435443	total: 511msremaining: 493ms
623	509: learn: 0.0434407	total: 512msremaining: 492ms
624	510: learn: 0.0433000	total: 512msremaining: 490ms
625	511: learn: 0.0431553	total: 513msremaining: 489ms
626	512: learn: 0.0429836	total: 514msremaining: 488ms
627	513: learn: 0.0428434	total: 514msremaining: 486ms
628	514: learn: 0.0427187	total: 515msremaining: 485ms
629	515: learn: 0.0425922	total: 516msremaining: 484ms
630	516: learn: 0.0424686	total: 517msremaining: 483ms
631	517: learn: 0.0423351	total: 517msremaining: 481ms

demo

632	518: learn: 0.0421630	total: 518msremaining: 480ms
633	519: learn: 0.0420257	total: 519msremaining: 479ms
634	520: learn: 0.0419231	total: 519msremaining: 477ms
635	521: learn: 0.0417701	total: 520msremaining: 476ms
636	522: learn: 0.0416534	total: 521msremaining: 475ms
637	523: learn: 0.0415658	total: 521msremaining: 474ms
638	524: learn: 0.0413887	total: 522msremaining: 472ms
639	525: learn: 0.0412791	total: 523msremaining: 471ms
640	526: learn: 0.0411545	total: 523msremaining: 470ms
641	527: learn: 0.0410783	total: 524msremaining: 468ms
642	528: learn: 0.0409308	total: 524msremaining: 467ms
643	529: learn: 0.0407907	total: 525msremaining: 466ms
644	530: learn: 0.0406544	total: 526msremaining: 464ms
645	531: learn: 0.0405398	total: 526msremaining: 463ms
646	532: learn: 0.0404010	total: 527msremaining: 462ms
647	533: learn: 0.0402993	total: 528msremaining: 461ms
648	534: learn: 0.0401932	total: 528msremaining: 459ms
649	535: learn: 0.0400704	total: 529msremaining: 458ms
650	536: learn: 0.0399714	total: 530msremaining: 457ms
651	537: learn: 0.0398526	total: 530msremaining: 455ms
652	538: learn: 0.0397493	total: 531msremaining: 454ms
653	539: learn: 0.0396668	total: 532msremaining: 453ms
654	540: learn: 0.0395176	total: 532msremaining: 452ms
655	541: learn: 0.0394290	total: 533msremaining: 451ms
656	542: learn: 0.0393507	total: 534msremaining: 449ms
657	543: learn: 0.0392324	total: 535msremaining: 448ms
658	544: learn: 0.0391411	total: 535msremaining: 447ms
659	545: learn: 0.0390594	total: 536msremaining: 446ms
660	546: learn: 0.0388928	total: 537msremaining: 444ms
661	547: learn: 0.0387282	total: 537msremaining: 443ms
662	548: learn: 0.0386578	total: 538msremaining: 442ms
663	549: learn: 0.0385918	total: 539msremaining: 441ms
664	550: learn: 0.0384697	total: 539msremaining: 439ms
665	551: learn: 0.0383529	total: 540msremaining: 438ms
666	552: learn: 0.0382104	total: 541msremaining: 437ms
667	553: learn: 0.0381467	total: 541msremaining: 436ms
668	554: learn: 0.0380150	total: 542msremaining: 435ms
669	555: learn: 0.0379006	total: 543msremaining: 433ms
670	556: learn: 0.0378035	total: 544msremaining: 432ms
671	557: learn: 0.0377226	total: 544msremaining: 431ms
672	558: learn: 0.0376215	total: 545msremaining: 430ms
673	559: learn: 0.0375043	total: 546msremaining: 429ms
674	560: learn: 0.0374321	total: 546msremaining: 428ms
675	561: learn: 0.0373415	total: 547msremaining: 426ms
676	562: learn: 0.0372461	total: 548msremaining: 425ms
677	563: learn: 0.0371488	total: 548msremaining: 424ms
678	564: learn: 0.0370662	total: 549msremaining: 423ms
679	565: learn: 0.0369971	total: 550msremaining: 422ms
680	566: learn: 0.0369017	total: 550msremaining: 420ms
681	567: learn: 0.0368146	total: 551msremaining: 419ms
682	568: learn: 0.0366605	total: 552msremaining: 418ms
683	569: learn: 0.0365639	total: 552msremaining: 417ms
684	570: learn: 0.0364197	total: 553msremaining: 416ms
685	571: learn: 0.0362672	total: 554msremaining: 414ms
686	572: learn: 0.0361850	total: 554msremaining: 413ms
687	573: learn: 0.0361113	total: 555msremaining: 412ms
688	574: learn: 0.0359989	total: 556msremaining: 411ms
689	575: learn: 0.0358600	total: 557msremaining: 410ms
690	576: learn: 0.0357639	total: 557msremaining: 409ms
691	577: learn: 0.0356319	total: 558msremaining: 407ms
692	578: learn: 0.0355104	total: 559msremaining: 406ms
693	579: learn: 0.0354110	total: 560msremaining: 405ms
694	580: learn: 0.0352433	total: 560msremaining: 404ms
695	581: learn: 0.0351361	total: 561msremaining: 403ms
696	582: learn: 0.0350574	total: 561msremaining: 402ms
697	583: learn: 0.0349388	total: 562msremaining: 400ms
698	584: learn: 0.0348501	total: 563msremaining: 399ms
699	585: learn: 0.0347661	total: 563msremaining: 398ms
700	586: learn: 0.0346444	total: 564msremaining: 397ms
701	587: learn: 0.0345389	total: 565msremaining: 396ms
702	588: learn: 0.0343602	total: 565msremaining: 394ms

demo

703	589: learn: 0.0342638	total: 566msremaining: 393ms
704	590: learn: 0.0341532	total: 567msremaining: 392ms
705	591: learn: 0.0339631	total: 567msremaining: 391ms
706	592: learn: 0.0338169	total: 568msremaining: 390ms
707	593: learn: 0.0337548	total: 568msremaining: 389ms
708	594: learn: 0.0336375	total: 569msremaining: 387ms
709	595: learn: 0.0335406	total: 570msremaining: 386ms
710	596: learn: 0.0334558	total: 571msremaining: 385ms
711	597: learn: 0.0333701	total: 571msremaining: 384ms
712	598: learn: 0.0333103	total: 572msremaining: 383ms
713	599: learn: 0.0332055	total: 573msremaining: 382ms
714	600: learn: 0.0330984	total: 573msremaining: 381ms
715	601: learn: 0.0330410	total: 574msremaining: 379ms
716	602: learn: 0.0329509	total: 575msremaining: 378ms
717	603: learn: 0.0328804	total: 575msremaining: 377ms
718	604: learn: 0.0327944	total: 576msremaining: 376ms
719	605: learn: 0.0326901	total: 577msremaining: 375ms
720	606: learn: 0.0325769	total: 577msremaining: 374ms
721	607: learn: 0.0324845	total: 578msremaining: 373ms
722	608: learn: 0.0324079	total: 579msremaining: 372ms
723	609: learn: 0.0322768	total: 580msremaining: 371ms
724	610: learn: 0.0322052	total: 580msremaining: 369ms
725	611: learn: 0.0321121	total: 581msremaining: 368ms
726	612: learn: 0.0320030	total: 582msremaining: 367ms
727	613: learn: 0.0319327	total: 582msremaining: 366ms
728	614: learn: 0.0317739	total: 583msremaining: 365ms
729	615: learn: 0.0316317	total: 584msremaining: 364ms
730	616: learn: 0.0315463	total: 584msremaining: 363ms
731	617: learn: 0.0314870	total: 585msremaining: 361ms
732	618: learn: 0.0314106	total: 585msremaining: 360ms
733	619: learn: 0.0313267	total: 586msremaining: 359ms
734	620: learn: 0.0312253	total: 587msremaining: 358ms
735	621: learn: 0.0311242	total: 588msremaining: 357ms
736	622: learn: 0.0310605	total: 588msremaining: 356ms
737	623: learn: 0.0309987	total: 589msremaining: 355ms
738	624: learn: 0.0309324	total: 590msremaining: 354ms
739	625: learn: 0.0308315	total: 590msremaining: 353ms
740	626: learn: 0.0307382	total: 591msremaining: 352ms
741	627: learn: 0.0306865	total: 592msremaining: 350ms
742	628: learn: 0.0306077	total: 592msremaining: 349ms
743	629: learn: 0.0305113	total: 593msremaining: 348ms
744	630: learn: 0.0304085	total: 594msremaining: 347ms
745	631: learn: 0.0303365	total: 594msremaining: 346ms
746	632: learn: 0.0302734	total: 595msremaining: 345ms
747	633: learn: 0.0301902	total: 596msremaining: 344ms
748	634: learn: 0.0301231	total: 596msremaining: 343ms
749	635: learn: 0.0300320	total: 597msremaining: 342ms
750	636: learn: 0.0299384	total: 598msremaining: 341ms
751	637: learn: 0.0298889	total: 598msremaining: 339ms
752	638: learn: 0.0298274	total: 599msremaining: 338ms
753	639: learn: 0.0297195	total: 600msremaining: 337ms
754	640: learn: 0.0296268	total: 600msremaining: 336ms
755	641: learn: 0.0295631	total: 601msremaining: 335ms
756	642: learn: 0.0294837	total: 602msremaining: 334ms
757	643: learn: 0.0294044	total: 602msremaining: 333ms
758	644: learn: 0.0293404	total: 603msremaining: 332ms
759	645: learn: 0.0292915	total: 604msremaining: 331ms
760	646: learn: 0.0292452	total: 604msremaining: 330ms
761	647: learn: 0.0291738	total: 605msremaining: 329ms
762	648: learn: 0.0291061	total: 606msremaining: 328ms
763	649: learn: 0.0290487	total: 606msremaining: 327ms
764	650: learn: 0.0289641	total: 607msremaining: 325ms
765	651: learn: 0.0289309	total: 608msremaining: 324ms
766	652: learn: 0.0288579	total: 608msremaining: 323ms
767	653: learn: 0.0288069	total: 609msremaining: 322ms
768	654: learn: 0.0287444	total: 610msremaining: 321ms
769	655: learn: 0.0287109	total: 610msremaining: 320ms
770	656: learn: 0.0286384	total: 611msremaining: 319ms
771	657: learn: 0.0285687	total: 612msremaining: 318ms
772	658: learn: 0.0285138	total: 612msremaining: 317ms
773	659: learn: 0.0283962	total: 613msremaining: 316ms

demo

774	660: learn: 0.0282892	total: 614ms	remaining: 315ms
775	661: learn: 0.0282019	total: 614ms	remaining: 314ms
776	662: learn: 0.0281479	total: 615ms	remaining: 313ms
777	663: learn: 0.0280754	total: 616ms	remaining: 312ms
778	664: learn: 0.0280226	total: 617ms	remaining: 311ms
779	665: learn: 0.0279338	total: 617ms	remaining: 310ms
780	666: learn: 0.0278821	total: 618ms	remaining: 309ms
781	667: learn: 0.0278132	total: 619ms	remaining: 308ms
782	668: learn: 0.0277680	total: 620ms	remaining: 307ms
783	669: learn: 0.0276838	total: 620ms	remaining: 306ms
784	670: learn: 0.0276278	total: 621ms	remaining: 305ms
785	671: learn: 0.0275482	total: 622ms	remaining: 303ms
786	672: learn: 0.0275060	total: 622ms	remaining: 302ms
787	673: learn: 0.0274296	total: 623ms	remaining: 301ms
788	674: learn: 0.0273857	total: 624ms	remaining: 300ms
789	675: learn: 0.0273314	total: 624ms	remaining: 299ms
790	676: learn: 0.0272807	total: 625ms	remaining: 298ms
791	677: learn: 0.0272299	total: 626ms	remaining: 297ms
792	678: learn: 0.0271674	total: 626ms	remaining: 296ms
793	679: learn: 0.0270798	total: 627ms	remaining: 295ms
794	680: learn: 0.0270264	total: 628ms	remaining: 294ms
795	681: learn: 0.0269574	total: 628ms	remaining: 293ms
796	682: learn: 0.0268860	total: 629ms	remaining: 292ms
797	683: learn: 0.0268312	total: 630ms	remaining: 291ms
798	684: learn: 0.0267714	total: 631ms	remaining: 290ms
799	685: learn: 0.0267143	total: 631ms	remaining: 289ms
800	686: learn: 0.0266693	total: 632ms	remaining: 288ms
801	687: learn: 0.0265927	total: 633ms	remaining: 287ms
802	688: learn: 0.0265528	total: 633ms	remaining: 286ms
803	689: learn: 0.0264909	total: 634ms	remaining: 285ms
804	690: learn: 0.0264500	total: 635ms	remaining: 284ms
805	691: learn: 0.0263480	total: 635ms	remaining: 283ms
806	692: learn: 0.0262989	total: 636ms	remaining: 282ms
807	693: learn: 0.0262448	total: 637ms	remaining: 281ms
808	694: learn: 0.0262003	total: 637ms	remaining: 280ms
809	695: learn: 0.0261172	total: 638ms	remaining: 279ms
810	696: learn: 0.0260715	total: 639ms	remaining: 278ms
811	697: learn: 0.0260175	total: 639ms	remaining: 277ms
812	698: learn: 0.0259773	total: 640ms	remaining: 276ms
813	699: learn: 0.0259276	total: 641ms	remaining: 275ms
814	700: learn: 0.0258671	total: 642ms	remaining: 274ms
815	701: learn: 0.0258022	total: 642ms	remaining: 273ms
816	702: learn: 0.0257373	total: 643ms	remaining: 272ms
817	703: learn: 0.0256895	total: 644ms	remaining: 271ms
818	704: learn: 0.0256238	total: 644ms	remaining: 270ms
819	705: learn: 0.0255464	total: 645ms	remaining: 269ms
820	706: learn: 0.0254980	total: 646ms	remaining: 268ms
821	707: learn: 0.0254549	total: 646ms	remaining: 267ms
822	708: learn: 0.0254118	total: 647ms	remaining: 266ms
823	709: learn: 0.0253604	total: 648ms	remaining: 265ms
824	710: learn: 0.0253181	total: 648ms	remaining: 264ms
825	711: learn: 0.0252660	total: 649ms	remaining: 263ms
826	712: learn: 0.0252209	total: 650ms	remaining: 262ms
827	713: learn: 0.0251876	total: 651ms	remaining: 261ms
828	714: learn: 0.0251317	total: 651ms	remaining: 260ms
829	715: learn: 0.0250802	total: 652ms	remaining: 259ms
830	716: learn: 0.0250098	total: 653ms	remaining: 258ms
831	717: learn: 0.0249461	total: 653ms	remaining: 257ms
832	718: learn: 0.0249044	total: 654ms	remaining: 256ms
833	719: learn: 0.0248089	total: 655ms	remaining: 255ms
834	720: learn: 0.0247425	total: 655ms	remaining: 254ms
835	721: learn: 0.0246923	total: 656ms	remaining: 253ms
836	722: learn: 0.0246417	total: 657ms	remaining: 252ms
837	723: learn: 0.0245938	total: 657ms	remaining: 251ms
838	724: learn: 0.0245513	total: 658ms	remaining: 250ms
839	725: learn: 0.0245149	total: 659ms	remaining: 249ms
840	726: learn: 0.0244796	total: 659ms	remaining: 248ms
841	727: learn: 0.0244161	total: 660ms	remaining: 247ms
842	728: learn: 0.0243792	total: 661ms	remaining: 246ms
843	729: learn: 0.0243156	total: 661ms	remaining: 245ms
844	730: learn: 0.0242785	total: 662ms	remaining: 244ms

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845	731: learn: 0.0242216	total: 663msremaining: 243ms
846	732: learn: 0.0241566	total: 664msremaining: 242ms
847	733: learn: 0.0241105	total: 665msremaining: 241ms
848	734: learn: 0.0240656	total: 665msremaining: 240ms
849	735: learn: 0.0240252	total: 666msremaining: 239ms
850	736: learn: 0.0239649	total: 667msremaining: 238ms
851	737: learn: 0.0239330	total: 667msremaining: 237ms
852	738: learn: 0.0238472	total: 668msremaining: 236ms
853	739: learn: 0.0238012	total: 669msremaining: 235ms
854	740: learn: 0.0237546	total: 670msremaining: 234ms
855	741: learn: 0.0237193	total: 670msremaining: 233ms
856	742: learn: 0.0236670	total: 671msremaining: 232ms
857	743: learn: 0.0236084	total: 672msremaining: 231ms
858	744: learn: 0.0235440	total: 672msremaining: 230ms
859	745: learn: 0.0234975	total: 673msremaining: 229ms
860	746: learn: 0.0234569	total: 674msremaining: 228ms
861	747: learn: 0.0234007	total: 674msremaining: 227ms
862	748: learn: 0.0233690	total: 675msremaining: 226ms
863	749: learn: 0.0233174	total: 676msremaining: 225ms
864	750: learn: 0.0232858	total: 677msremaining: 224ms
865	751: learn: 0.0232306	total: 677msremaining: 223ms
866	752: learn: 0.0231690	total: 678msremaining: 222ms
867	753: learn: 0.0231289	total: 679msremaining: 221ms
868	754: learn: 0.0230880	total: 679msremaining: 220ms
869	755: learn: 0.0230513	total: 680msremaining: 219ms
870	756: learn: 0.0230140	total: 681msremaining: 219ms
871	757: learn: 0.0229805	total: 681msremaining: 218ms
872	758: learn: 0.0229444	total: 682msremaining: 217ms
873	759: learn: 0.0229046	total: 683msremaining: 216ms
874	760: learn: 0.0228666	total: 683msremaining: 215ms
875	761: learn: 0.0228375	total: 684msremaining: 214ms
876	762: learn: 0.0228017	total: 685msremaining: 213ms
877	763: learn: 0.0227643	total: 685msremaining: 212ms
878	764: learn: 0.0227196	total: 686msremaining: 211ms
879	765: learn: 0.0226061	total: 687msremaining: 210ms
880	766: learn: 0.0225587	total: 687msremaining: 209ms
881	767: learn: 0.0224907	total: 688msremaining: 208ms
882	768: learn: 0.0224488	total: 689msremaining: 207ms
883	769: learn: 0.0223939	total: 689msremaining: 206ms
884	770: learn: 0.0223296	total: 690msremaining: 205ms
885	771: learn: 0.0222886	total: 691msremaining: 204ms
886	772: learn: 0.0222558	total: 692msremaining: 203ms
887	773: learn: 0.0222100	total: 692msremaining: 202ms
888	774: learn: 0.0221792	total: 693msremaining: 201ms
889	775: learn: 0.0221407	total: 694msremaining: 200ms
890	776: learn: 0.0220941	total: 694msremaining: 199ms
891	777: learn: 0.0220648	total: 695msremaining: 198ms
892	778: learn: 0.0220254	total: 695msremaining: 197ms
893	779: learn: 0.0219439	total: 696msremaining: 196ms
894	780: learn: 0.0219118	total: 697msremaining: 195ms
895	781: learn: 0.0218723	total: 697msremaining: 194ms
896	782: learn: 0.0218324	total: 698msremaining: 193ms
897	783: learn: 0.0217979	total: 699msremaining: 193ms
898	784: learn: 0.0217464	total: 700msremaining: 192ms
899	785: learn: 0.0217033	total: 700msremaining: 191ms
900	786: learn: 0.0216611	total: 701msremaining: 190ms
901	787: learn: 0.0216200	total: 702msremaining: 189ms
902	788: learn: 0.0215908	total: 702msremaining: 188ms
903	789: learn: 0.0215589	total: 703msremaining: 187ms
904	790: learn: 0.0215242	total: 704msremaining: 186ms
905	791: learn: 0.0214767	total: 704msremaining: 185ms
906	792: learn: 0.0214447	total: 705msremaining: 184ms
907	793: learn: 0.0214111	total: 706msremaining: 183ms
908	794: learn: 0.0213673	total: 707msremaining: 182ms
909	795: learn: 0.0213347	total: 707msremaining: 181ms
910	796: learn: 0.0212927	total: 708msremaining: 180ms
911	797: learn: 0.0212555	total: 709msremaining: 179ms
912	798: learn: 0.0212169	total: 709msremaining: 178ms
913	799: learn: 0.0211651	total: 710msremaining: 177ms
914	800: learn: 0.0211061	total: 711msremaining: 177ms
915	801: learn: 0.0210723	total: 711msremaining: 176ms

demo

916	802:learn:	0.0210294	total:	712msremaining:	175ms
917	803:learn:	0.0209714	total:	712msremaining:	174ms
918	804:learn:	0.0208821	total:	713msremaining:	173ms
919	805:learn:	0.0208473	total:	714msremaining:	172ms
920	806:learn:	0.0208034	total:	714msremaining:	171ms
921	807:learn:	0.0207741	total:	715msremaining:	170ms
922	808:learn:	0.0207198	total:	716msremaining:	169ms
923	809:learn:	0.0206902	total:	716msremaining:	168ms
924	810:learn:	0.0206664	total:	717msremaining:	167ms
925	811:learn:	0.0206108	total:	718msremaining:	166ms
926	812:learn:	0.0205704	total:	719msremaining:	165ms
927	813:learn:	0.0205335	total:	719msremaining:	164ms
928	814:learn:	0.0205135	total:	720msremaining:	163ms
929	815:learn:	0.0204669	total:	721msremaining:	163ms
930	816:learn:	0.0204281	total:	721msremaining:	162ms
931	817:learn:	0.0203834	total:	722msremaining:	161ms
932	818:learn:	0.0203453	total:	723msremaining:	160ms
933	819:learn:	0.0203127	total:	723msremaining:	159ms
934	820:learn:	0.0202613	total:	724msremaining:	158ms
935	821:learn:	0.0202249	total:	725msremaining:	157ms
936	822:learn:	0.0201794	total:	725msremaining:	156ms
937	823:learn:	0.0201513	total:	726msremaining:	155ms
938	824:learn:	0.0201106	total:	727msremaining:	154ms
939	825:learn:	0.0200453	total:	728msremaining:	153ms
940	826:learn:	0.0200132	total:	728msremaining:	152ms
941	827:learn:	0.0199715	total:	729msremaining:	151ms
942	828:learn:	0.0199350	total:	730msremaining:	150ms
943	829:learn:	0.0199021	total:	730msremaining:	150ms
944	830:learn:	0.0198698	total:	731msremaining:	149ms
945	831:learn:	0.0198326	total:	732msremaining:	148ms
946	832:learn:	0.0197890	total:	732msremaining:	147ms
947	833:learn:	0.0197565	total:	733msremaining:	146ms
948	834:learn:	0.0197063	total:	734msremaining:	145ms
949	835:learn:	0.0196772	total:	734msremaining:	144ms
950	836:learn:	0.0196535	total:	735msremaining:	143ms
951	837:learn:	0.0196236	total:	736msremaining:	142ms
952	838:learn:	0.0195756	total:	736msremaining:	141ms
953	839:learn:	0.0195342	total:	737msremaining:	140ms
954	840:learn:	0.0194851	total:	737msremaining:	139ms
955	841:learn:	0.0194446	total:	738msremaining:	138ms
956	842:learn:	0.0194072	total:	739msremaining:	138ms
957	843:learn:	0.0193746	total:	739msremaining:	137ms
958	844:learn:	0.0193340	total:	740msremaining:	136ms
959	845:learn:	0.0193010	total:	741msremaining:	135ms
960	846:learn:	0.0192718	total:	741msremaining:	134ms
961	847:learn:	0.0192271	total:	742msremaining:	133ms
962	848:learn:	0.0192075	total:	743msremaining:	132ms
963	849:learn:	0.0191798	total:	743msremaining:	131ms
964	850:learn:	0.0191503	total:	744msremaining:	130ms
965	851:learn:	0.0191193	total:	745msremaining:	129ms
966	852:learn:	0.0190973	total:	745msremaining:	128ms
967	853:learn:	0.0190642	total:	746msremaining:	128ms
968	854:learn:	0.0190379	total:	747msremaining:	127ms
969	855:learn:	0.0190064	total:	747msremaining:	126ms
970	856:learn:	0.0189606	total:	748msremaining:	125ms
971	857:learn:	0.0189274	total:	749msremaining:	124ms
972	858:learn:	0.0188779	total:	749msremaining:	123ms
973	859:learn:	0.0188514	total:	750msremaining:	122ms
974	860:learn:	0.0188300	total:	751msremaining:	121ms
975	861:learn:	0.0187466	total:	751msremaining:	120ms
976	862:learn:	0.0187242	total:	752msremaining:	119ms
977	863:learn:	0.0186753	total:	753msremaining:	118ms
978	864:learn:	0.0186390	total:	753msremaining:	118ms
979	865:learn:	0.0185972	total:	754msremaining:	117ms
980	866:learn:	0.0185524	total:	754msremaining:	116ms
981	867:learn:	0.0185243	total:	755msremaining:	115ms
982	868:learn:	0.0184948	total:	756msremaining:	114ms
983	869:learn:	0.0184714	total:	756msremaining:	113ms
984	870:learn:	0.0184342	total:	757msremaining:	112ms
985	871:learn:	0.0183835	total:	758msremaining:	111ms
986	872:learn:	0.0183606	total:	759msremaining:	110ms

demo

987	873:learn:	0.0183211	total:	759msremaining:	109ms
988	874:learn:	0.0183006	total:	760msremaining:	109ms
989	875:learn:	0.0182619	total:	760msremaining:	108ms
990	876:learn:	0.0182263	total:	761msremaining:	107ms
991	877:learn:	0.0181962	total:	762msremaining:	106ms
992	878:learn:	0.0181605	total:	762msremaining:	105ms
993	879:learn:	0.0181182	total:	763msremaining:	104ms
994	880:learn:	0.0180732	total:	764msremaining:	103ms
995	881:learn:	0.0180501	total:	765msremaining:	102ms
996	882:learn:	0.0180260	total:	765msremaining:	101ms
997	883:learn:	0.0179982	total:	766msremaining:	101ms
998	884:learn:	0.0179710	total:	767msremaining:	99.6ms
999	885:learn:	0.0179471	total:	767msremaining:	98.7ms
1000	886:learn:	0.0179009	total:	768msremaining:	97.8ms
1001	887:learn:	0.0178727	total:	769msremaining:	96.9ms
1002	888:learn:	0.0178478	total:	769msremaining:	96.1ms
1003	889:learn:	0.0178107	total:	770msremaining:	95.2ms
1004	890:learn:	0.0177846	total:	771msremaining:	94.3ms
1005	891:learn:	0.0177503	total:	771msremaining:	93.4ms
1006	892:learn:	0.0177108	total:	772msremaining:	92.5ms
1007	893:learn:	0.0176753	total:	773msremaining:	91.6ms
1008	894:learn:	0.0176470	total:	773msremaining:	90.7ms
1009	895:learn:	0.0176117	total:	774msremaining:	89.8ms
1010	896:learn:	0.0175785	total:	775msremaining:	88.9ms
1011	897:learn:	0.0175474	total:	775msremaining:	88ms
1012	898:learn:	0.0175099	total:	776msremaining:	87.2ms
1013	899:learn:	0.0174902	total:	776msremaining:	86.3ms
1014	900:learn:	0.0174646	total:	777msremaining:	85.4ms
1015	901:learn:	0.0174436	total:	778msremaining:	84.5ms
1016	902:learn:	0.0174156	total:	779msremaining:	83.6ms
1017	903:learn:	0.0173858	total:	779msremaining:	82.8ms
1018	904:learn:	0.0173407	total:	780msremaining:	81.9ms
1019	905:learn:	0.0173114	total:	781msremaining:	81ms
1020	906:learn:	0.0172896	total:	781msremaining:	80.1ms
1021	907:learn:	0.0172465	total:	782msremaining:	79.2ms
1022	908:learn:	0.0172239	total:	783msremaining:	78.4ms
1023	909:learn:	0.0171830	total:	783msremaining:	77.5ms
1024	910:learn:	0.0171015	total:	784msremaining:	76.6ms
1025	911:learn:	0.0170803	total:	785msremaining:	75.7ms
1026	912:learn:	0.0170326	total:	785msremaining:	74.8ms
1027	913:learn:	0.0170117	total:	786msremaining:	74ms
1028	914:learn:	0.0169787	total:	787msremaining:	73.1ms
1029	915:learn:	0.0169498	total:	787msremaining:	72.2ms
1030	916:learn:	0.0169195	total:	788msremaining:	71.3ms
1031	917:learn:	0.0168859	total:	788msremaining:	70.4ms
1032	918:learn:	0.0168615	total:	789msremaining:	69.6ms
1033	919:learn:	0.0168460	total:	790msremaining:	68.7ms
1034	920:learn:	0.0168173	total:	790msremaining:	67.8ms
1035	921:learn:	0.0167870	total:	791msremaining:	66.9ms
1036	922:learn:	0.0167623	total:	792msremaining:	66.1ms
1037	923:learn:	0.0167441	total:	793msremaining:	65.2ms
1038	924:learn:	0.0167058	total:	794msremaining:	64.3ms
1039	925:learn:	0.0166862	total:	794msremaining:	63.5ms
1040	926:learn:	0.0166569	total:	795msremaining:	62.6ms
1041	927:learn:	0.0166336	total:	796msremaining:	61.8ms
1042	928:learn:	0.0166146	total:	797msremaining:	60.9ms
1043	929:learn:	0.0165787	total:	798msremaining:	60.1ms
1044	930:learn:	0.0165468	total:	799msremaining:	59.2ms
1045	931:learn:	0.0165232	total:	799msremaining:	58.3ms
1046	932:learn:	0.0164909	total:	800msremaining:	57.5ms
1047	933:learn:	0.0164523	total:	801msremaining:	56.6ms
1048	934:learn:	0.0164329	total:	801msremaining:	55.7ms
1049	935:learn:	0.0164152	total:	802msremaining:	54.8ms
1050	936:learn:	0.0163883	total:	803msremaining:	54ms
1051	937:learn:	0.0163296	total:	803msremaining:	53.1ms
1052	938:learn:	0.0163140	total:	804msremaining:	52.2ms
1053	939:learn:	0.0162776	total:	805msremaining:	51.4ms
1054	940:learn:	0.0162560	total:	805msremaining:	50.5ms
1055	941:learn:	0.0162275	total:	806msremaining:	49.6ms
1056	942:learn:	0.0162015	total:	807msremaining:	48.8ms
1057	943:learn:	0.0161728	total:	807msremaining:	47.9ms

demo

```
1058 944:learn: 0.0161298 total: 808msremaining: 47ms
1059 945:learn: 0.0161064 total: 809msremaining: 46.2ms
1060 946:learn: 0.0160879 total: 810msremaining: 45.3ms
1061 947:learn: 0.0160543 total: 810msremaining: 44.4ms
1062 948:learn: 0.0160298 total: 811msremaining: 43.6ms
1063 949:learn: 0.0159651 total: 811msremaining: 42.7ms
1064 950:learn: 0.0159460 total: 812msremaining: 41.8ms
1065 951:learn: 0.0159254 total: 813msremaining: 41ms
1066 952:learn: 0.0158977 total: 813msremaining: 40.1ms
1067 953:learn: 0.0158660 total: 814msremaining: 39.3ms
1068 954:learn: 0.0158418 total: 815msremaining: 38.4ms
1069 955:learn: 0.0158212 total: 815msremaining: 37.5ms
1070 956:learn: 0.0157969 total: 816msremaining: 36.7ms
1071 957:learn: 0.0157815 total: 817msremaining: 35.8ms
1072 958:learn: 0.0157366 total: 818msremaining: 35ms
1073 959:learn: 0.0157174 total: 818msremaining: 34.1ms
1074 960:learn: 0.0156971 total: 819msremaining: 33.2ms
1075 961:learn: 0.0156683 total: 820msremaining: 32.4ms
1076 962:learn: 0.0156417 total: 820msremaining: 31.5ms
1077 963:learn: 0.0156190 total: 821msremaining: 30.7ms
1078 964:learn: 0.0155943 total: 822msremaining: 29.8ms
1079 965:learn: 0.0155702 total: 822msremaining: 28.9ms
1080 966:learn: 0.0155269 total: 823msremaining: 28.1ms
1081 967:learn: 0.0154921 total: 824msremaining: 27.2ms
1082 968:learn: 0.0154706 total: 825msremaining: 26.4ms
1083 969:learn: 0.0154255 total: 825msremaining: 25.5ms
1084 970:learn: 0.0154054 total: 826msremaining: 24.7ms
1085 971:learn: 0.0153888 total: 826msremaining: 23.8ms
1086 972:learn: 0.0153701 total: 827msremaining: 22.9ms
1087 973:learn: 0.0153213 total: 828msremaining: 22.1ms
1088 974:learn: 0.0153015 total: 828msremaining: 21.2ms
1089 975:learn: 0.0152703 total: 829msremaining: 20.4ms
1090 976:learn: 0.0152476 total: 830msremaining: 19.5ms
1091 977:learn: 0.0152247 total: 830msremaining: 18.7ms
1092 978:learn: 0.0151936 total: 831msremaining: 17.8ms
1093 979:learn: 0.0151715 total: 832msremaining: 17ms
1094 980:learn: 0.0151397 total: 832msremaining: 16.1ms
1095 981:learn: 0.0151239 total: 833msremaining: 15.3ms
1096 982:learn: 0.0150809 total: 833msremaining: 14.4ms
1097 983:learn: 0.0150570 total: 834msremaining: 13.6ms
1098 984:learn: 0.0150278 total: 835msremaining: 12.7ms
1099 985:learn: 0.0150077 total: 836msremaining: 11.9ms
1100 986:learn: 0.0149841 total: 836msremaining: 11ms
1101 987:learn: 0.0149705 total: 837msremaining: 10.2ms
1102 988:learn: 0.0149495 total: 838msremaining: 9.31ms
1103 989:learn: 0.0149323 total: 838msremaining: 8.47ms
1104 990:learn: 0.0149058 total: 839msremaining: 7.62ms
1105 991:learn: 0.0148904 total: 840msremaining: 6.77ms
1106 992:learn: 0.0148653 total: 840msremaining: 5.92ms
1107 993:learn: 0.0148361 total: 841msremaining: 5.08ms
1108 994:learn: 0.0148152 total: 842msremaining: 4.23ms
1109 995:learn: 0.0147978 total: 843msremaining: 3.38ms
1110 996:learn: 0.0147790 total: 843msremaining: 2.54ms
1111 997:learn: 0.0147584 total: 844msremaining: 1.69ms
1112 998:learn: 0.0147288 total: 845msremaining: 845us
1113 999:learn: 0.0146996 total: 845msremaining: 0us
1114 current noise type: None
1115 {'Samples': 3062, 'Features': 166, 'Anomalies': 97, 'Anomalies Ratio(%)': 3.17}
1116 Evaluating on dataset: 25_musk
1117 X_train shape: (153, 166)
1118 X_test shape: (2909, 166)
1119 Training size: 153, No. outliers: 1
1120 Epoch 1/50
1121 20/20 [=====] - 0s 5ms/step - loss: 1.8437
1122 Epoch 2/50
1123 20/20 [=====] - 0s 5ms/step - loss: 0.8586
1124 Epoch 3/50
1125 20/20 [=====] - 0s 5ms/step - loss: 0.5893
1126 Epoch 4/50
1127 20/20 [=====] - 0s 5ms/step - loss: 0.5156
1128 Epoch 5/50
```


demo

1129	20/20	[=====]	- 0s 5ms/step - loss: 0.4681
1130	Epoch 6/50		
1131	20/20	[=====]	- 0s 5ms/step - loss: 0.4299
1132	Epoch 7/50		
1133	20/20	[=====]	- 0s 5ms/step - loss: 0.4003
1134	Epoch 8/50		
1135	20/20	[=====]	- 0s 5ms/step - loss: 0.3922
1136	Epoch 9/50		
1137	20/20	[=====]	- 0s 5ms/step - loss: 0.3702
1138	Epoch 10/50		
1139	20/20	[=====]	- 0s 5ms/step - loss: 0.3597
1140	Epoch 11/50		
1141	20/20	[=====]	- 0s 5ms/step - loss: 0.3456
1142	Epoch 12/50		
1143	20/20	[=====]	- 0s 5ms/step - loss: 0.3462
1144	Epoch 13/50		
1145	20/20	[=====]	- 0s 5ms/step - loss: 0.3310
1146	Epoch 14/50		
1147	20/20	[=====]	- 0s 5ms/step - loss: 0.3248
1148	Epoch 15/50		
1149	20/20	[=====]	- 0s 5ms/step - loss: 0.3132
1150	Epoch 16/50		
1151	20/20	[=====]	- 0s 5ms/step - loss: 0.3080
1152	Epoch 17/50		
1153	20/20	[=====]	- 0s 5ms/step - loss: 0.3040
1154	Epoch 18/50		
1155	20/20	[=====]	- 0s 5ms/step - loss: 0.2987
1156	Epoch 19/50		
1157	20/20	[=====]	- 0s 5ms/step - loss: 0.2911
1158	Epoch 20/50		
1159	20/20	[=====]	- 0s 5ms/step - loss: 0.2850
1160	Epoch 21/50		
1161	20/20	[=====]	- 0s 5ms/step - loss: 0.2769
1162	Epoch 22/50		
1163	20/20	[=====]	- 0s 5ms/step - loss: 0.2835
1164	Epoch 23/50		
1165	20/20	[=====]	- 0s 5ms/step - loss: 0.2783
1166	Epoch 24/50		
1167	20/20	[=====]	- 0s 5ms/step - loss: 0.2684
1168	Epoch 25/50		
1169	20/20	[=====]	- 0s 5ms/step - loss: 0.2658
1170	Epoch 26/50		
1171	20/20	[=====]	- 0s 5ms/step - loss: 0.2679
1172	Epoch 27/50		
1173	20/20	[=====]	- 0s 5ms/step - loss: 0.2695
1174	Epoch 28/50		
1175	20/20	[=====]	- 0s 5ms/step - loss: 0.2621
1176	Epoch 29/50		
1177	20/20	[=====]	- 0s 5ms/step - loss: 0.2547
1178	Epoch 30/50		
1179	20/20	[=====]	- 0s 5ms/step - loss: 0.2593
1180	Epoch 31/50		
1181	20/20	[=====]	- 0s 5ms/step - loss: 0.2589
1182	Epoch 32/50		
1183	20/20	[=====]	- 0s 5ms/step - loss: 0.2559
1184	Epoch 33/50		
1185	20/20	[=====]	- 0s 5ms/step - loss: 0.2528
1186	Epoch 34/50		
1187	20/20	[=====]	- 0s 5ms/step - loss: 0.2404
1188	Epoch 35/50		
1189	20/20	[=====]	- 0s 5ms/step - loss: 0.2415
1190	Epoch 36/50		
1191	20/20	[=====]	- 0s 5ms/step - loss: 0.2440
1192	Epoch 37/50		
1193	20/20	[=====]	- 0s 5ms/step - loss: 0.2360
1194	Epoch 38/50		
1195	20/20	[=====]	- 0s 5ms/step - loss: 0.2334
1196	Epoch 39/50		
1197	20/20	[=====]	- 0s 5ms/step - loss: 0.2326
1198	Epoch 40/50		
1199	20/20	[=====]	- 0s 5ms/step - loss: 0.2367

demo

```
1200 Epoch 41/50
1201 20/20 [=====] - 0s 5ms/step - loss: 0.2314
1202 Epoch 42/50
1203 20/20 [=====] - 0s 5ms/step - loss: 0.2236
1204 Epoch 43/50
1205 20/20 [=====] - 0s 5ms/step - loss: 0.2205
1206 Epoch 44/50
1207 20/20 [=====] - 0s 5ms/step - loss: 0.2217
1208 Epoch 45/50
1209 20/20 [=====] - 0s 5ms/step - loss: 0.2171
1210 Epoch 46/50
1211 20/20 [=====] - 0s 5ms/step - loss: 0.2108
1212 Epoch 47/50
1213 20/20 [=====] - 0s 5ms/step - loss: 0.2169
1214 Epoch 48/50
1215 20/20 [=====] - 0s 5ms/step - loss: 0.2111
1216 Epoch 49/50
1217 20/20 [=====] - 0s 5ms/step - loss: 0.2055
1218 Epoch 50/50
1219 20/20 [=====] - 0s 5ms/step - loss: 0.2075
1220 Learning rate set to 0.004622
1221 0: learn: 0.6859685 total: 3.71ms remaining: 3.71s
1222 1: learn: 0.6782096 total: 6.29ms remaining: 3.14s
1223 2: learn: 0.6712079 total: 8.31ms remaining: 2.76s
1224 3: learn: 0.6618663 total: 10.3ms remaining: 2.57s
1225 4: learn: 0.6543228 total: 12.3ms remaining: 2.45s
1226 5: learn: 0.6474297 total: 14.4ms remaining: 2.39s
1227 6: learn: 0.6404067 total: 16.4ms remaining: 2.33s
1228 7: learn: 0.6329618 total: 18.4ms remaining: 2.28s
1229 8: learn: 0.6263784 total: 20.3ms remaining: 2.24s
1230 9: learn: 0.6211874 total: 22.3ms remaining: 2.21s
1231 10: learn: 0.6137690 total: 24.2ms remaining: 2.18s
1232 11: learn: 0.6058027 total: 26.1ms remaining: 2.15s
1233 12: learn: 0.5989735 total: 27.9ms remaining: 2.12s
1234 13: learn: 0.5922218 total: 29.9ms remaining: 2.1s
1235 14: learn: 0.5847923 total: 31.8ms remaining: 2.08s
1236 15: learn: 0.5786341 total: 33.7ms remaining: 2.07s
1237 16: learn: 0.5718881 total: 35.6ms remaining: 2.06s
1238 17: learn: 0.5644832 total: 37.6ms remaining: 2.05s
1239 18: learn: 0.5576563 total: 39.6ms remaining: 2.04s
1240 19: learn: 0.5508939 total: 41.5ms remaining: 2.03s
1241 20: learn: 0.5450572 total: 43.4ms remaining: 2.02s
1242 21: learn: 0.5383077 total: 45.4ms remaining: 2.02s
1243 22: learn: 0.5330506 total: 47.4ms remaining: 2.01s
1244 23: learn: 0.5271401 total: 49.4ms remaining: 2.01s
1245 24: learn: 0.5207444 total: 51.3ms remaining: 2s
1246 25: learn: 0.5152187 total: 53.2ms remaining: 1.99s
1247 26: learn: 0.5096359 total: 55.1ms remaining: 1.98s
1248 27: learn: 0.5048757 total: 56.9ms remaining: 1.98s
1249 28: learn: 0.4992539 total: 58.8ms remaining: 1.97s
1250 29: learn: 0.4930974 total: 60.9ms remaining: 1.97s
1251 30: learn: 0.4879300 total: 62.8ms remaining: 1.96s
1252 31: learn: 0.4827684 total: 64.8ms remaining: 1.96s
1253 32: learn: 0.4768604 total: 66.7ms remaining: 1.95s
1254 33: learn: 0.4726414 total: 68.8ms remaining: 1.96s
1255 34: learn: 0.4671363 total: 71ms remaining: 1.96s
1256 35: learn: 0.4619069 total: 72.9ms remaining: 1.95s
1257 36: learn: 0.4577045 total: 74.8ms remaining: 1.95s
1258 37: learn: 0.4538678 total: 76.8ms remaining: 1.95s
1259 38: learn: 0.4485310 total: 78.8ms remaining: 1.94s
1260 39: learn: 0.4434398 total: 80.6ms remaining: 1.94s
1261 40: learn: 0.4389497 total: 82.6ms remaining: 1.93s
1262 41: learn: 0.4340401 total: 84.6ms remaining: 1.93s
1263 42: learn: 0.4286193 total: 86.4ms remaining: 1.92s
1264 43: learn: 0.4247972 total: 88.4ms remaining: 1.92s
1265 44: learn: 0.4201297 total: 90.5ms remaining: 1.92s
1266 45: learn: 0.4165517 total: 92.6ms remaining: 1.92s
1267 46: learn: 0.4119513 total: 94.5ms remaining: 1.92s
1268 47: learn: 0.4079096 total: 96.4ms remaining: 1.91s
1269 48: learn: 0.4025340 total: 98.4ms remaining: 1.91s
1270 49: learn: 0.3982225 total: 100ms remaining: 1.91s
```

demo

1271	50:	learn:	0.3942396	total:	102msremaining:	1.9s
1272	51:	learn:	0.3903629	total:	104msremaining:	1.9s
1273	52:	learn:	0.3862347	total:	106msremaining:	1.9s
1274	53:	learn:	0.3824264	total:	108msremaining:	1.89s
1275	54:	learn:	0.3781648	total:	110msremaining:	1.89s
1276	55:	learn:	0.3736560	total:	112msremaining:	1.88s
1277	56:	learn:	0.3704394	total:	114msremaining:	1.88s
1278	57:	learn:	0.3658854	total:	116msremaining:	1.88s
1279	58:	learn:	0.3614304	total:	118msremaining:	1.87s
1280	59:	learn:	0.3570427	total:	120msremaining:	1.87s
1281	60:	learn:	0.3535332	total:	122msremaining:	1.87s
1282	61:	learn:	0.3494955	total:	124msremaining:	1.87s
1283	62:	learn:	0.3465020	total:	125msremaining:	1.86s
1284	63:	learn:	0.3426452	total:	127msremaining:	1.86s
1285	64:	learn:	0.3393539	total:	129msremaining:	1.86s
1286	65:	learn:	0.3360346	total:	131msremaining:	1.86s
1287	66:	learn:	0.3328990	total:	133msremaining:	1.85s
1288	67:	learn:	0.3290508	total:	135msremaining:	1.85s
1289	68:	learn:	0.3259735	total:	137msremaining:	1.85s
1290	69:	learn:	0.3222258	total:	139msremaining:	1.85s
1291	70:	learn:	0.3191663	total:	141msremaining:	1.84s
1292	71:	learn:	0.3159322	total:	143msremaining:	1.84s
1293	72:	learn:	0.3127300	total:	145msremaining:	1.84s
1294	73:	learn:	0.3085282	total:	147msremaining:	1.84s
1295	74:	learn:	0.3051791	total:	149msremaining:	1.83s
1296	75:	learn:	0.3023505	total:	151msremaining:	1.83s
1297	76:	learn:	0.2993080	total:	153msremaining:	1.83s
1298	77:	learn:	0.2964785	total:	154msremaining:	1.82s
1299	78:	learn:	0.2931486	total:	156msremaining:	1.82s
1300	79:	learn:	0.2899596	total:	158msremaining:	1.82s
1301	80:	learn:	0.2875521	total:	160msremaining:	1.82s
1302	81:	learn:	0.2842867	total:	162msremaining:	1.81s
1303	82:	learn:	0.2813173	total:	164msremaining:	1.81s
1304	83:	learn:	0.2786673	total:	166msremaining:	1.81s
1305	84:	learn:	0.2763850	total:	168msremaining:	1.81s
1306	85:	learn:	0.2740532	total:	170msremaining:	1.8s
1307	86:	learn:	0.2717307	total:	172msremaining:	1.8s
1308	87:	learn:	0.2689515	total:	174msremaining:	1.8s
1309	88:	learn:	0.2667106	total:	176msremaining:	1.8s
1310	89:	learn:	0.2638970	total:	178msremaining:	1.8s
1311	90:	learn:	0.2614852	total:	180msremaining:	1.79s
1312	91:	learn:	0.2588351	total:	182msremaining:	1.79s
1313	92:	learn:	0.2567127	total:	183msremaining:	1.79s
1314	93:	learn:	0.2542370	total:	185msremaining:	1.78s
1315	94:	learn:	0.2511599	total:	187msremaining:	1.78s
1316	95:	learn:	0.2489121	total:	189msremaining:	1.78s
1317	96:	learn:	0.2461445	total:	191msremaining:	1.78s
1318	97:	learn:	0.2434333	total:	193msremaining:	1.77s
1319	98:	learn:	0.2411909	total:	195msremaining:	1.77s
1320	99:	learn:	0.2391121	total:	197msremaining:	1.77s
1321	100:	learn:	0.2366787	total:	199msremaining:	1.77s
1322	101:	learn:	0.2346186	total:	201msremaining:	1.77s
1323	102:	learn:	0.2323930	total:	203msremaining:	1.77s
1324	103:	learn:	0.2301961	total:	205msremaining:	1.76s
1325	104:	learn:	0.2279635	total:	207msremaining:	1.76s
1326	105:	learn:	0.2261843	total:	209msremaining:	1.76s
1327	106:	learn:	0.2240858	total:	211msremaining:	1.76s
1328	107:	learn:	0.2222569	total:	213msremaining:	1.75s
1329	108:	learn:	0.2196610	total:	215msremaining:	1.75s
1330	109:	learn:	0.2180798	total:	216msremaining:	1.75s
1331	110:	learn:	0.2160492	total:	218msremaining:	1.75s
1332	111:	learn:	0.2140494	total:	220msremaining:	1.75s
1333	112:	learn:	0.2119934	total:	222msremaining:	1.75s
1334	113:	learn:	0.2104496	total:	224msremaining:	1.74s
1335	114:	learn:	0.2080423	total:	226msremaining:	1.74s
1336	115:	learn:	0.2063272	total:	228msremaining:	1.74s
1337	116:	learn:	0.2047532	total:	230msremaining:	1.74s
1338	117:	learn:	0.2030144	total:	232msremaining:	1.73s
1339	118:	learn:	0.2010744	total:	234msremaining:	1.73s
1340	119:	learn:	0.1987910	total:	236msremaining:	1.73s
1341	120:	learn:	0.1969272	total:	238msremaining:	1.73s

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1342	121:learn:	0.1949497	total:	240msremaining:	1.73s
1343	122:learn:	0.1934044	total:	242msremaining:	1.72s
1344	123:learn:	0.1915694	total:	244msremaining:	1.72s
1345	124:learn:	0.1896572	total:	246msremaining:	1.72s
1346	125:learn:	0.1883546	total:	248msremaining:	1.72s
1347	126:learn:	0.1868223	total:	250msremaining:	1.72s
1348	127:learn:	0.1851746	total:	252msremaining:	1.71s
1349	128:learn:	0.1837140	total:	253msremaining:	1.71s
1350	129:learn:	0.1818853	total:	256msremaining:	1.71s
1351	130:learn:	0.1799854	total:	258msremaining:	1.71s
1352	131:learn:	0.1779851	total:	260msremaining:	1.71s
1353	132:learn:	0.1766254	total:	262msremaining:	1.71s
1354	133:learn:	0.1749653	total:	264msremaining:	1.71s
1355	134:learn:	0.1735437	total:	266msremaining:	1.7s
1356	135:learn:	0.1721380	total:	268msremaining:	1.7s
1357	136:learn:	0.1706881	total:	270msremaining:	1.7s
1358	137:learn:	0.1692801	total:	272msremaining:	1.7s
1359	138:learn:	0.1677281	total:	274msremaining:	1.7s
1360	139:learn:	0.1662389	total:	276msremaining:	1.69s
1361	140:learn:	0.1648992	total:	278msremaining:	1.69s
1362	141:learn:	0.1635627	total:	279msremaining:	1.69s
1363	142:learn:	0.1622785	total:	281msremaining:	1.69s
1364	143:learn:	0.1607052	total:	283msremaining:	1.68s
1365	144:learn:	0.1591243	total:	285msremaining:	1.68s
1366	145:learn:	0.1577399	total:	287msremaining:	1.68s
1367	146:learn:	0.1567366	total:	289msremaining:	1.68s
1368	147:learn:	0.1556309	total:	291msremaining:	1.68s
1369	148:learn:	0.1542674	total:	293msremaining:	1.68s
1370	149:learn:	0.1533122	total:	295msremaining:	1.67s
1371	150:learn:	0.1521828	total:	297msremaining:	1.67s
1372	151:learn:	0.1511273	total:	299msremaining:	1.67s
1373	152:learn:	0.1499546	total:	301msremaining:	1.67s
1374	153:learn:	0.1490826	total:	303msremaining:	1.66s
1375	154:learn:	0.1476804	total:	305msremaining:	1.66s
1376	155:learn:	0.1464275	total:	307msremaining:	1.66s
1377	156:learn:	0.1453341	total:	309msremaining:	1.66s
1378	157:learn:	0.1445417	total:	311msremaining:	1.66s
1379	158:learn:	0.1437191	total:	313msremaining:	1.65s
1380	159:learn:	0.1426855	total:	315msremaining:	1.65s
1381	160:learn:	0.1415383	total:	317msremaining:	1.65s
1382	161:learn:	0.1406939	total:	319msremaining:	1.65s
1383	162:learn:	0.1392407	total:	321msremaining:	1.65s
1384	163:learn:	0.1383344	total:	323msremaining:	1.64s
1385	164:learn:	0.1373330	total:	324msremaining:	1.64s
1386	165:learn:	0.1362401	total:	326msremaining:	1.64s
1387	166:learn:	0.1353651	total:	328msremaining:	1.64s
1388	167:learn:	0.1338169	total:	330msremaining:	1.64s
1389	168:learn:	0.1328329	total:	332msremaining:	1.63s
1390	169:learn:	0.1316352	total:	334msremaining:	1.63s
1391	170:learn:	0.1307235	total:	336msremaining:	1.63s
1392	171:learn:	0.1299091	total:	338msremaining:	1.63s
1393	172:learn:	0.1287708	total:	340msremaining:	1.63s
1394	173:learn:	0.1278173	total:	342msremaining:	1.62s
1395	174:learn:	0.1269743	total:	344msremaining:	1.62s
1396	175:learn:	0.1256794	total:	346msremaining:	1.62s
1397	176:learn:	0.1246990	total:	348msremaining:	1.62s
1398	177:learn:	0.1236653	total:	350msremaining:	1.61s
1399	178:learn:	0.1228002	total:	352msremaining:	1.61s
1400	179:learn:	0.1220481	total:	354msremaining:	1.61s
1401	180:learn:	0.1213612	total:	356msremaining:	1.61s
1402	181:learn:	0.1204806	total:	358msremaining:	1.61s
1403	182:learn:	0.1195772	total:	359msremaining:	1.6s
1404	183:learn:	0.1185770	total:	361msremaining:	1.6s
1405	184:learn:	0.1175027	total:	363msremaining:	1.6s
1406	185:learn:	0.1166379	total:	365msremaining:	1.6s
1407	186:learn:	0.1158310	total:	367msremaining:	1.6s
1408	187:learn:	0.1150903	total:	369msremaining:	1.59s
1409	188:learn:	0.1138798	total:	371msremaining:	1.59s
1410	189:learn:	0.1126853	total:	373msremaining:	1.59s
1411	190:learn:	0.1117888	total:	375msremaining:	1.59s
1412	191:learn:	0.1108754	total:	377msremaining:	1.58s

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1413	192:learn:	0.1101312	total:	379msremaining:	1.58s
1414	193:learn:	0.1091751	total:	381msremaining:	1.58s
1415	194:learn:	0.1084707	total:	383msremaining:	1.58s
1416	195:learn:	0.1076128	total:	385msremaining:	1.58s
1417	196:learn:	0.1066182	total:	386msremaining:	1.57s
1418	197:learn:	0.1059583	total:	389msremaining:	1.57s
1419	198:learn:	0.1051017	total:	391msremaining:	1.57s
1420	199:learn:	0.1039724	total:	393msremaining:	1.57s
1421	200:learn:	0.1032250	total:	395msremaining:	1.57s
1422	201:learn:	0.1024662	total:	397msremaining:	1.57s
1423	202:learn:	0.1015775	total:	399msremaining:	1.56s
1424	203:learn:	0.1009517	total:	400msremaining:	1.56s
1425	204:learn:	0.1000514	total:	402msremaining:	1.56s
1426	205:learn:	0.0993452	total:	404msremaining:	1.56s
1427	206:learn:	0.0984625	total:	406msremaining:	1.56s
1428	207:learn:	0.0979823	total:	408msremaining:	1.55s
1429	208:learn:	0.0974544	total:	411msremaining:	1.55s
1430	209:learn:	0.0968627	total:	413msremaining:	1.55s
1431	210:learn:	0.0962459	total:	414msremaining:	1.55s
1432	211:learn:	0.0955697	total:	416msremaining:	1.55s
1433	212:learn:	0.0948945	total:	418msremaining:	1.54s
1434	213:learn:	0.0942454	total:	420msremaining:	1.54s
1435	214:learn:	0.0937058	total:	422msremaining:	1.54s
1436	215:learn:	0.0931136	total:	424msremaining:	1.54s
1437	216:learn:	0.0924986	total:	426msremaining:	1.54s
1438	217:learn:	0.0917895	total:	428msremaining:	1.53s
1439	218:learn:	0.0912603	total:	430msremaining:	1.53s
1440	219:learn:	0.0904798	total:	432msremaining:	1.53s
1441	220:learn:	0.0897429	total:	434msremaining:	1.53s
1442	221:learn:	0.0888933	total:	436msremaining:	1.53s
1443	222:learn:	0.0882986	total:	438msremaining:	1.52s
1444	223:learn:	0.0878608	total:	440msremaining:	1.52s
1445	224:learn:	0.0872355	total:	441msremaining:	1.52s
1446	225:learn:	0.0867403	total:	443msremaining:	1.52s
1447	226:learn:	0.0861896	total:	445msremaining:	1.51s
1448	227:learn:	0.0857424	total:	447msremaining:	1.51s
1449	228:learn:	0.0852175	total:	449msremaining:	1.51s
1450	229:learn:	0.0846237	total:	451msremaining:	1.51s
1451	230:learn:	0.0841467	total:	453msremaining:	1.51s
1452	231:learn:	0.0836627	total:	455msremaining:	1.51s
1453	232:learn:	0.0829874	total:	457msremaining:	1.5s
1454	233:learn:	0.0824961	total:	459msremaining:	1.5s
1455	234:learn:	0.0818341	total:	461msremaining:	1.5s
1456	235:learn:	0.0812384	total:	463msremaining:	1.5s
1457	236:learn:	0.0808520	total:	465msremaining:	1.5s
1458	237:learn:	0.0803135	total:	467msremaining:	1.5s
1459	238:learn:	0.0798057	total:	469msremaining:	1.49s
1460	239:learn:	0.0792714	total:	471msremaining:	1.49s
1461	240:learn:	0.0787332	total:	473msremaining:	1.49s
1462	241:learn:	0.0781911	total:	475msremaining:	1.49s
1463	242:learn:	0.0774955	total:	477msremaining:	1.49s
1464	243:learn:	0.0769694	total:	479msremaining:	1.48s
1465	244:learn:	0.0763770	total:	481msremaining:	1.48s
1466	245:learn:	0.0759602	total:	483msremaining:	1.48s
1467	246:learn:	0.0754763	total:	485msremaining:	1.48s
1468	247:learn:	0.0749132	total:	486msremaining:	1.48s
1469	248:learn:	0.0744624	total:	488msremaining:	1.47s
1470	249:learn:	0.0739455	total:	490msremaining:	1.47s
1471	250:learn:	0.0733937	total:	492msremaining:	1.47s
1472	251:learn:	0.0727531	total:	495msremaining:	1.47s
1473	252:learn:	0.0724415	total:	496msremaining:	1.47s
1474	253:learn:	0.0718367	total:	498msremaining:	1.46s
1475	254:learn:	0.0713853	total:	500msremaining:	1.46s
1476	255:learn:	0.0707735	total:	502msremaining:	1.46s
1477	256:learn:	0.0703104	total:	504msremaining:	1.46s
1478	257:learn:	0.0697869	total:	506msremaining:	1.46s
1479	258:learn:	0.0692142	total:	508msremaining:	1.45s
1480	259:learn:	0.0687483	total:	510msremaining:	1.45s
1481	260:learn:	0.0682930	total:	511msremaining:	1.45s
1482	261:learn:	0.0678482	total:	513msremaining:	1.45s
1483	262:learn:	0.0674664	total:	515msremaining:	1.44s

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1484	263:learn:	0.0671265	total:	517msremaining:	1.44s
1485	264:learn:	0.0667323	total:	519msremaining:	1.44s
1486	265:learn:	0.0663019	total:	521msremaining:	1.44s
1487	266:learn:	0.0658357	total:	523msremaining:	1.44s
1488	267:learn:	0.0653290	total:	525msremaining:	1.43s
1489	268:learn:	0.0649697	total:	527msremaining:	1.43s
1490	269:learn:	0.0646216	total:	529msremaining:	1.43s
1491	270:learn:	0.0641802	total:	531msremaining:	1.43s
1492	271:learn:	0.0636942	total:	533msremaining:	1.43s
1493	272:learn:	0.0633480	total:	535msremaining:	1.42s
1494	273:learn:	0.0627708	total:	537msremaining:	1.42s
1495	274:learn:	0.0623992	total:	539msremaining:	1.42s
1496	275:learn:	0.0620931	total:	540msremaining:	1.42s
1497	276:learn:	0.0617157	total:	542msremaining:	1.42s
1498	277:learn:	0.0613233	total:	544msremaining:	1.41s
1499	278:learn:	0.0609871	total:	546msremaining:	1.41s
1500	279:learn:	0.0606358	total:	548msremaining:	1.41s
1501	280:learn:	0.0601366	total:	550msremaining:	1.41s
1502	281:learn:	0.0596549	total:	552msremaining:	1.41s
1503	282:learn:	0.0593294	total:	554msremaining:	1.4s
1504	283:learn:	0.0589604	total:	556msremaining:	1.4s
1505	284:learn:	0.0586189	total:	558msremaining:	1.4s
1506	285:learn:	0.0581667	total:	560msremaining:	1.4s
1507	286:learn:	0.0578620	total:	562msremaining:	1.4s
1508	287:learn:	0.0576029	total:	564msremaining:	1.39s
1509	288:learn:	0.0571814	total:	566msremaining:	1.39s
1510	289:learn:	0.0568309	total:	568msremaining:	1.39s
1511	290:learn:	0.0566171	total:	570msremaining:	1.39s
1512	291:learn:	0.0562983	total:	572msremaining:	1.39s
1513	292:learn:	0.0558495	total:	574msremaining:	1.38s
1514	293:learn:	0.0555374	total:	576msremaining:	1.38s
1515	294:learn:	0.0552257	total:	578msremaining:	1.38s
1516	295:learn:	0.0550061	total:	579msremaining:	1.38s
1517	296:learn:	0.0547752	total:	581msremaining:	1.38s
1518	297:learn:	0.0545399	total:	583msremaining:	1.37s
1519	298:learn:	0.0542094	total:	585msremaining:	1.37s
1520	299:learn:	0.0538697	total:	587msremaining:	1.37s
1521	300:learn:	0.0536636	total:	589msremaining:	1.37s
1522	301:learn:	0.0534171	total:	591msremaining:	1.37s
1523	302:learn:	0.0530382	total:	593msremaining:	1.36s
1524	303:learn:	0.0527482	total:	595msremaining:	1.36s
1525	304:learn:	0.0524503	total:	597msremaining:	1.36s
1526	305:learn:	0.0522057	total:	599msremaining:	1.36s
1527	306:learn:	0.0518224	total:	601msremaining:	1.36s
1528	307:learn:	0.0515748	total:	603msremaining:	1.35s
1529	308:learn:	0.0512499	total:	605msremaining:	1.35s
1530	309:learn:	0.0508440	total:	607msremaining:	1.35s
1531	310:learn:	0.0506372	total:	609msremaining:	1.35s
1532	311:learn:	0.0503728	total:	611msremaining:	1.35s
1533	312:learn:	0.0501061	total:	613msremaining:	1.34s
1534	313:learn:	0.0498449	total:	615msremaining:	1.34s
1535	314:learn:	0.0495564	total:	617msremaining:	1.34s
1536	315:learn:	0.0492487	total:	619msremaining:	1.34s
1537	316:learn:	0.0489564	total:	621msremaining:	1.34s
1538	317:learn:	0.0486296	total:	623msremaining:	1.33s
1539	318:learn:	0.0483600	total:	624msremaining:	1.33s
1540	319:learn:	0.0481628	total:	626msremaining:	1.33s
1541	320:learn:	0.0478796	total:	628msremaining:	1.33s
1542	321:learn:	0.0475196	total:	630msremaining:	1.33s
1543	322:learn:	0.0472421	total:	632msremaining:	1.32s
1544	323:learn:	0.0470424	total:	634msremaining:	1.32s
1545	324:learn:	0.0467865	total:	636msremaining:	1.32s
1546	325:learn:	0.0465909	total:	638msremaining:	1.32s
1547	326:learn:	0.0462737	total:	640msremaining:	1.32s
1548	327:learn:	0.0460799	total:	642msremaining:	1.31s
1549	328:learn:	0.0458327	total:	644msremaining:	1.31s
1550	329:learn:	0.0455298	total:	646msremaining:	1.31s
1551	330:learn:	0.0452362	total:	648msremaining:	1.31s
1552	331:learn:	0.0449690	total:	649msremaining:	1.31s
1553	332:learn:	0.0446898	total:	651msremaining:	1.3s
1554	333:learn:	0.0444911	total:	653msremaining:	1.3s

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1555	334:learn:	0.0442869	total:	655msremaining:	1.3s
1556	335:learn:	0.0440916	total:	657msremaining:	1.3s
1557	336:learn:	0.0437913	total:	659msremaining:	1.3s
1558	337:learn:	0.0436171	total:	661msremaining:	1.29s
1559	338:learn:	0.0432979	total:	663msremaining:	1.29s
1560	339:learn:	0.0430858	total:	665msremaining:	1.29s
1561	340:learn:	0.0428306	total:	667msremaining:	1.29s
1562	341:learn:	0.0425500	total:	669msremaining:	1.29s
1563	342:learn:	0.0423929	total:	671msremaining:	1.28s
1564	343:learn:	0.0421000	total:	673msremaining:	1.28s
1565	344:learn:	0.0419358	total:	674msremaining:	1.28s
1566	345:learn:	0.0417249	total:	676msremaining:	1.28s
1567	346:learn:	0.0415030	total:	678msremaining:	1.28s
1568	347:learn:	0.0413354	total:	680msremaining:	1.27s
1569	348:learn:	0.0411328	total:	682msremaining:	1.27s
1570	349:learn:	0.0408982	total:	684msremaining:	1.27s
1571	350:learn:	0.0407557	total:	686msremaining:	1.27s
1572	351:learn:	0.0405355	total:	689msremaining:	1.27s
1573	352:learn:	0.0403354	total:	691msremaining:	1.26s
1574	353:learn:	0.0401883	total:	692msremaining:	1.26s
1575	354:learn:	0.0400057	total:	694msremaining:	1.26s
1576	355:learn:	0.0397929	total:	696msremaining:	1.26s
1577	356:learn:	0.0396110	total:	698msremaining:	1.26s
1578	357:learn:	0.0393471	total:	700msremaining:	1.25s
1579	358:learn:	0.0391172	total:	702msremaining:	1.25s
1580	359:learn:	0.0389603	total:	704msremaining:	1.25s
1581	360:learn:	0.0387786	total:	706msremaining:	1.25s
1582	361:learn:	0.0386422	total:	707msremaining:	1.25s
1583	362:learn:	0.0383807	total:	709msremaining:	1.24s
1584	363:learn:	0.0381459	total:	711msremaining:	1.24s
1585	364:learn:	0.0379750	total:	713msremaining:	1.24s
1586	365:learn:	0.0377328	total:	715msremaining:	1.24s
1587	366:learn:	0.0375542	total:	717msremaining:	1.24s
1588	367:learn:	0.0373986	total:	719msremaining:	1.24s
1589	368:learn:	0.0372448	total:	722msremaining:	1.23s
1590	369:learn:	0.0370379	total:	724msremaining:	1.23s
1591	370:learn:	0.0369154	total:	726msremaining:	1.23s
1592	371:learn:	0.0366919	total:	728msremaining:	1.23s
1593	372:learn:	0.0365233	total:	730msremaining:	1.23s
1594	373:learn:	0.0363844	total:	732msremaining:	1.23s
1595	374:learn:	0.0362489	total:	734msremaining:	1.22s
1596	375:learn:	0.0360558	total:	737msremaining:	1.22s
1597	376:learn:	0.0359048	total:	739msremaining:	1.22s
1598	377:learn:	0.0357117	total:	741msremaining:	1.22s
1599	378:learn:	0.0355721	total:	743msremaining:	1.22s
1600	379:learn:	0.0354237	total:	745msremaining:	1.22s
1601	380:learn:	0.0352633	total:	747msremaining:	1.21s
1602	381:learn:	0.0350312	total:	749msremaining:	1.21s
1603	382:learn:	0.0348958	total:	751msremaining:	1.21s
1604	383:learn:	0.0347506	total:	753msremaining:	1.21s
1605	384:learn:	0.0346204	total:	755msremaining:	1.21s
1606	385:learn:	0.0344765	total:	757msremaining:	1.2s
1607	386:learn:	0.0342287	total:	759msremaining:	1.2s
1608	387:learn:	0.0338416	total:	759msremaining:	1.2s
1609	388:learn:	0.0336500	total:	761msremaining:	1.2s
1610	389:learn:	0.0333211	total:	763msremaining:	1.19s
1611	390:learn:	0.0332216	total:	765msremaining:	1.19s
1612	391:learn:	0.0330745	total:	767msremaining:	1.19s
1613	392:learn:	0.0329490	total:	768msremaining:	1.19s
1614	393:learn:	0.0327768	total:	770msremaining:	1.18s
1615	394:learn:	0.0326542	total:	772msremaining:	1.18s
1616	395:learn:	0.0324963	total:	775msremaining:	1.18s
1617	396:learn:	0.0323608	total:	776msremaining:	1.18s
1618	397:learn:	0.0322249	total:	778msremaining:	1.18s
1619	398:learn:	0.0320557	total:	780msremaining:	1.18s
1620	399:learn:	0.0319047	total:	782msremaining:	1.17s
1621	400:learn:	0.0316603	total:	783msremaining:	1.17s
1622	401:learn:	0.0314962	total:	785msremaining:	1.17s
1623	402:learn:	0.0313946	total:	787msremaining:	1.17s
1624	403:learn:	0.0312282	total:	789msremaining:	1.16s
1625	404:learn:	0.0310917	total:	791msremaining:	1.16s

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1626	405:learn:	0.0309346	total:	793msremaining:	1.16s
1627	406:learn:	0.0308173	total:	795msremaining:	1.16s
1628	407:learn:	0.0307293	total:	797msremaining:	1.16s
1629	408:learn:	0.0305813	total:	799msremaining:	1.15s
1630	409:learn:	0.0304632	total:	800msremaining:	1.15s
1631	410:learn:	0.0303476	total:	803msremaining:	1.15s
1632	411:learn:	0.0301677	total:	805msremaining:	1.15s
1633	412:learn:	0.0300690	total:	807msremaining:	1.15s
1634	413:learn:	0.0299505	total:	810msremaining:	1.15s
1635	414:learn:	0.0298132	total:	812msremaining:	1.14s
1636	415:learn:	0.0297172	total:	814msremaining:	1.14s
1637	416:learn:	0.0295604	total:	816msremaining:	1.14s
1638	417:learn:	0.0293953	total:	818msremaining:	1.14s
1639	418:learn:	0.0292718	total:	820msremaining:	1.14s
1640	419:learn:	0.0291804	total:	822msremaining:	1.13s
1641	420:learn:	0.0290836	total:	824msremaining:	1.13s
1642	421:learn:	0.0289653	total:	826msremaining:	1.13s
1643	422:learn:	0.0287998	total:	828msremaining:	1.13s
1644	423:learn:	0.0286933	total:	830msremaining:	1.13s
1645	424:learn:	0.0285642	total:	831msremaining:	1.12s
1646	425:learn:	0.0284702	total:	833msremaining:	1.12s
1647	426:learn:	0.0283286	total:	835msremaining:	1.12s
1648	427:learn:	0.0282255	total:	837msremaining:	1.12s
1649	428:learn:	0.0281034	total:	839msremaining:	1.12s
1650	429:learn:	0.0279878	total:	841msremaining:	1.11s
1651	430:learn:	0.0278498	total:	842msremaining:	1.11s
1652	431:learn:	0.0277511	total:	844msremaining:	1.11s
1653	432:learn:	0.0276579	total:	846msremaining:	1.11s
1654	433:learn:	0.0275360	total:	848msremaining:	1.1s
1655	434:learn:	0.0274178	total:	850msremaining:	1.1s
1656	435:learn:	0.0272942	total:	852msremaining:	1.1s
1657	436:learn:	0.0271876	total:	854msremaining:	1.1s
1658	437:learn:	0.0270719	total:	856msremaining:	1.1s
1659	438:learn:	0.0269859	total:	858msremaining:	1.09s
1660	439:learn:	0.0268842	total:	860msremaining:	1.09s
1661	440:learn:	0.0267992	total:	861msremaining:	1.09s
1662	441:learn:	0.0267148	total:	864msremaining:	1.09s
1663	442:learn:	0.0266414	total:	865msremaining:	1.09s
1664	443:learn:	0.0265144	total:	867msremaining:	1.09s
1665	444:learn:	0.0264248	total:	869msremaining:	1.08s
1666	445:learn:	0.0263178	total:	871msremaining:	1.08s
1667	446:learn:	0.0262152	total:	873msremaining:	1.08s
1668	447:learn:	0.0261115	total:	875msremaining:	1.08s
1669	448:learn:	0.0260083	total:	877msremaining:	1.07s
1670	449:learn:	0.0258986	total:	879msremaining:	1.07s
1671	450:learn:	0.0258333	total:	881msremaining:	1.07s
1672	451:learn:	0.0257476	total:	883msremaining:	1.07s
1673	452:learn:	0.0255705	total:	883msremaining:	1.07s
1674	453:learn:	0.0254318	total:	885msremaining:	1.06s
1675	454:learn:	0.0253367	total:	887msremaining:	1.06s
1676	455:learn:	0.0252155	total:	889msremaining:	1.06s
1677	456:learn:	0.0251388	total:	891msremaining:	1.06s
1678	457:learn:	0.0250491	total:	893msremaining:	1.06s
1679	458:learn:	0.0249867	total:	895msremaining:	1.05s
1680	459:learn:	0.0249152	total:	897msremaining:	1.05s
1681	460:learn:	0.0248167	total:	899msremaining:	1.05s
1682	461:learn:	0.0247242	total:	901msremaining:	1.05s
1683	462:learn:	0.0246452	total:	903msremaining:	1.05s
1684	463:learn:	0.0245423	total:	905msremaining:	1.04s
1685	464:learn:	0.0244491	total:	906msremaining:	1.04s
1686	465:learn:	0.0243516	total:	908msremaining:	1.04s
1687	466:learn:	0.0242719	total:	910msremaining:	1.04s
1688	467:learn:	0.0241865	total:	912msremaining:	1.04s
1689	468:learn:	0.0240739	total:	914msremaining:	1.03s
1690	469:learn:	0.0239762	total:	916msremaining:	1.03s
1691	470:learn:	0.0238659	total:	918msremaining:	1.03s
1692	471:learn:	0.0237628	total:	920msremaining:	1.03s
1693	472:learn:	0.0236408	total:	921msremaining:	1.03s
1694	473:learn:	0.0235551	total:	924msremaining:	1.02s
1695	474:learn:	0.0234449	total:	926msremaining:	1.02s
1696	475:learn:	0.0233657	total:	927msremaining:	1.02s

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1697	476:learn:	0.0233070	total:	929msremaining:	1.02s
1698	477:learn:	0.0231790	total:	931msremaining:	1.02s
1699	478:learn:	0.0230867	total:	932msremaining:	1.01s
1700	479:learn:	0.0229488	total:	934msremaining:	1.01s
1701	480:learn:	0.0228424	total:	936msremaining:	1.01s
1702	481:learn:	0.0227710	total:	938msremaining:	1.01s
1703	482:learn:	0.0226733	total:	940msremaining:	1.01s
1704	483:learn:	0.0225973	total:	942msremaining:	1s
1705	484:learn:	0.0225293	total:	944msremaining:	1s
1706	485:learn:	0.0224333	total:	946msremaining:	1s
1707	486:learn:	0.0223275	total:	948msremaining:	999ms
1708	487:learn:	0.0222706	total:	950msremaining:	997ms
1709	488:learn:	0.0221617	total:	952msremaining:	995ms
1710	489:learn:	0.0220926	total:	954msremaining:	993ms
1711	490:learn:	0.0219789	total:	956msremaining:	991ms
1712	491:learn:	0.0219061	total:	958msremaining:	989ms
1713	492:learn:	0.0218265	total:	960msremaining:	987ms
1714	493:learn:	0.0217376	total:	962msremaining:	985ms
1715	494:learn:	0.0216625	total:	964msremaining:	983ms
1716	495:learn:	0.0215962	total:	966msremaining:	982ms
1717	496:learn:	0.0215142	total:	968msremaining:	980ms
1718	497:learn:	0.0214158	total:	970msremaining:	978ms
1719	498:learn:	0.0213581	total:	972msremaining:	976ms
1720	499:learn:	0.0212990	total:	974msremaining:	974ms
1721	500:learn:	0.0212326	total:	976msremaining:	972ms
1722	501:learn:	0.0211629	total:	978msremaining:	970ms
1723	502:learn:	0.0210860	total:	980msremaining:	968ms
1724	503:learn:	0.0210231	total:	982msremaining:	966ms
1725	504:learn:	0.0209574	total:	984msremaining:	964ms
1726	505:learn:	0.0208373	total:	985msremaining:	962ms
1727	506:learn:	0.0207710	total:	987msremaining:	960ms
1728	507:learn:	0.0206834	total:	989msremaining:	958ms
1729	508:learn:	0.0206350	total:	991msremaining:	956ms
1730	509:learn:	0.0205693	total:	993msremaining:	954ms
1731	510:learn:	0.0204849	total:	995msremaining:	952ms
1732	511:learn:	0.0204038	total:	997msremaining:	950ms
1733	512:learn:	0.0203378	total:	999msremaining:	948ms
1734	513:learn:	0.0202786	total:	1s remaining:	946ms
1735	514:learn:	0.0202206	total:	1s remaining:	944ms
1736	515:learn:	0.0201664	total:	1s remaining:	942ms
1737	516:learn:	0.0201112	total:	1.01sremaining:	940ms
1738	517:learn:	0.0200632	total:	1.01sremaining:	938ms
1739	518:learn:	0.0199977	total:	1.01sremaining:	936ms
1740	519:learn:	0.0199499	total:	1.01sremaining:	934ms
1741	520:learn:	0.0198842	total:	1.01sremaining:	932ms
1742	521:learn:	0.0197980	total:	1.01sremaining:	930ms
1743	522:learn:	0.0197418	total:	1.02sremaining:	928ms
1744	523:learn:	0.0196845	total:	1.02sremaining:	927ms
1745	524:learn:	0.0196244	total:	1.02sremaining:	925ms
1746	525:learn:	0.0195442	total:	1.02sremaining:	923ms
1747	526:learn:	0.0194825	total:	1.02sremaining:	921ms
1748	527:learn:	0.0194219	total:	1.03sremaining:	919ms
1749	528:learn:	0.0193300	total:	1.03sremaining:	917ms
1750	529:learn:	0.0192374	total:	1.03sremaining:	915ms
1751	530:learn:	0.0191754	total:	1.03sremaining:	913ms
1752	531:learn:	0.0191199	total:	1.03sremaining:	911ms
1753	532:learn:	0.0190605	total:	1.04sremaining:	909ms
1754	533:learn:	0.0190022	total:	1.04sremaining:	907ms
1755	534:learn:	0.0189385	total:	1.04sremaining:	905ms
1756	535:learn:	0.0188865	total:	1.04sremaining:	903ms
1757	536:learn:	0.0188172	total:	1.04sremaining:	901ms
1758	537:learn:	0.0187657	total:	1.05sremaining:	899ms
1759	538:learn:	0.0187137	total:	1.05sremaining:	897ms
1760	539:learn:	0.0186351	total:	1.05sremaining:	895ms
1761	540:learn:	0.0185768	total:	1.05sremaining:	893ms
1762	541:learn:	0.0184761	total:	1.05sremaining:	891ms
1763	542:learn:	0.0183931	total:	1.06sremaining:	890ms
1764	543:learn:	0.0183303	total:	1.06sremaining:	888ms
1765	544:learn:	0.0182872	total:	1.06sremaining:	886ms
1766	545:learn:	0.0182191	total:	1.06sremaining:	884ms
1767	546:learn:	0.0181670	total:	1.06sremaining:	882ms

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1768	547:learn:	0.0181109	total:	1.07sremaining:	880ms
1769	548:learn:	0.0180405	total:	1.07sremaining:	878ms
1770	549:learn:	0.0179657	total:	1.07sremaining:	876ms
1771	550:learn:	0.0178986	total:	1.07sremaining:	874ms
1772	551:learn:	0.0178332	total:	1.07sremaining:	872ms
1773	552:learn:	0.0177797	total:	1.08sremaining:	870ms
1774	553:learn:	0.0177184	total:	1.08sremaining:	868ms
1775	554:learn:	0.0176587	total:	1.08sremaining:	866ms
1776	555:learn:	0.0175909	total:	1.08sremaining:	865ms
1777	556:learn:	0.0175029	total:	1.08sremaining:	863ms
1778	557:learn:	0.0174320	total:	1.09sremaining:	861ms
1779	558:learn:	0.0173878	total:	1.09sremaining:	859ms
1780	559:learn:	0.0173348	total:	1.09sremaining:	857ms
1781	560:learn:	0.0173029	total:	1.09sremaining:	855ms
1782	561:learn:	0.0172417	total:	1.09sremaining:	853ms
1783	562:learn:	0.0172048	total:	1.1s remaining:	851ms
1784	563:learn:	0.0171677	total:	1.1s remaining:	849ms
1785	564:learn:	0.0171077	total:	1.1s remaining:	848ms
1786	565:learn:	0.0170567	total:	1.1s remaining:	846ms
1787	566:learn:	0.0170108	total:	1.1s remaining:	844ms
1788	567:learn:	0.0169562	total:	1.1sremaining:	842ms
1789	568:learn:	0.0168756	total:	1.1sremaining:	840ms
1790	569:learn:	0.0168221	total:	1.1sremaining:	838ms
1791	570:learn:	0.0167868	total:	1.1sremaining:	836ms
1792	571:learn:	0.0167317	total:	1.1sremaining:	834ms
1793	572:learn:	0.0166736	total:	1.12sremaining:	832ms
1794	573:learn:	0.0166316	total:	1.12sremaining:	830ms
1795	574:learn:	0.0165936	total:	1.12sremaining:	828ms
1796	575:learn:	0.0165345	total:	1.12sremaining:	826ms
1797	576:learn:	0.0164915	total:	1.12sremaining:	824ms
1798	577:learn:	0.0164311	total:	1.13sremaining:	822ms
1799	578:learn:	0.0163857	total:	1.13sremaining:	820ms
1800	579:learn:	0.0163438	total:	1.13sremaining:	818ms
1801	580:learn:	0.0162934	total:	1.13sremaining:	816ms
1802	581:learn:	0.0162406	total:	1.13sremaining:	814ms
1803	582:learn:	0.0161859	total:	1.14sremaining:	812ms
1804	583:learn:	0.0161272	total:	1.14sremaining:	810ms
1805	584:learn:	0.0160923	total:	1.14sremaining:	809ms
1806	585:learn:	0.0160429	total:	1.14sremaining:	807ms
1807	586:learn:	0.0160102	total:	1.14sremaining:	805ms
1808	587:learn:	0.0159702	total:	1.15sremaining:	803ms
1809	588:learn:	0.0159401	total:	1.15sremaining:	801ms
1810	589:learn:	0.0159026	total:	1.15sremaining:	799ms
1811	590:learn:	0.0158662	total:	1.15sremaining:	797ms
1812	591:learn:	0.0158290	total:	1.15sremaining:	795ms
1813	592:learn:	0.0157868	total:	1.16sremaining:	793ms
1814	593:learn:	0.0157564	total:	1.16sremaining:	791ms
1815	594:learn:	0.0157107	total:	1.16sremaining:	789ms
1816	595:learn:	0.0156685	total:	1.16sremaining:	787ms
1817	596:learn:	0.0156296	total:	1.16sremaining:	785ms
1818	597:learn:	0.0155695	total:	1.17sremaining:	783ms
1819	598:learn:	0.0155230	total:	1.17sremaining:	782ms
1820	599:learn:	0.0154854	total:	1.17sremaining:	780ms
1821	600:learn:	0.0154503	total:	1.17sremaining:	778ms
1822	601:learn:	0.0154115	total:	1.17sremaining:	776ms
1823	602:learn:	0.0153597	total:	1.18sremaining:	774ms
1824	603:learn:	0.0153296	total:	1.18sremaining:	772ms
1825	604:learn:	0.0152931	total:	1.18sremaining:	770ms
1826	605:learn:	0.0152584	total:	1.18sremaining:	768ms
1827	606:learn:	0.0152137	total:	1.18sremaining:	766ms
1828	607:learn:	0.0151730	total:	1.19sremaining:	764ms
1829	608:learn:	0.0151327	total:	1.19sremaining:	762ms
1830	609:learn:	0.0150853	total:	1.19sremaining:	760ms
1831	610:learn:	0.0150530	total:	1.19sremaining:	758ms
1832	611:learn:	0.0150032	total:	1.19sremaining:	756ms
1833	612:learn:	0.0149691	total:	1.19sremaining:	754ms
1834	613:learn:	0.0149089	total:	1.2s remaining:	752ms
1835	614:learn:	0.0148656	total:	1.2s remaining:	750ms
1836	615:learn:	0.0148320	total:	1.2s remaining:	748ms
1837	616:learn:	0.0147921	total:	1.2s remaining:	746ms
1838	617:learn:	0.0147533	total:	1.2s remaining:	744ms

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1839	618:learn:	0.0147168	total:	1.21sremaining:	742ms
1840	619:learn:	0.0146856	total:	1.21sremaining:	741ms
1841	620:learn:	0.0146409	total:	1.21sremaining:	739ms
1842	621:learn:	0.0146125	total:	1.21sremaining:	737ms
1843	622:learn:	0.0145871	total:	1.21sremaining:	735ms
1844	623:learn:	0.0145581	total:	1.22sremaining:	733ms
1845	624:learn:	0.0145258	total:	1.22sremaining:	731ms
1846	625:learn:	0.0144820	total:	1.22sremaining:	729ms
1847	626:learn:	0.0144289	total:	1.22sremaining:	727ms
1848	627:learn:	0.0143748	total:	1.22sremaining:	725ms
1849	628:learn:	0.0143322	total:	1.23sremaining:	723ms
1850	629:learn:	0.0142960	total:	1.23sremaining:	721ms
1851	630:learn:	0.0142630	total:	1.23sremaining:	719ms
1852	631:learn:	0.0142344	total:	1.23sremaining:	717ms
1853	632:learn:	0.0142133	total:	1.23sremaining:	715ms
1854	633:learn:	0.0141834	total:	1.24sremaining:	713ms
1855	634:learn:	0.0141440	total:	1.24sremaining:	711ms
1856	635:learn:	0.0141044	total:	1.24sremaining:	709ms
1857	636:learn:	0.0140718	total:	1.24sremaining:	707ms
1858	637:learn:	0.0140344	total:	1.24sremaining:	705ms
1859	638:learn:	0.0140087	total:	1.25sremaining:	703ms
1860	639:learn:	0.0139664	total:	1.25sremaining:	701ms
1861	640:learn:	0.0139209	total:	1.25sremaining:	700ms
1862	641:learn:	0.0138668	total:	1.25sremaining:	698ms
1863	642:learn:	0.0138407	total:	1.25sremaining:	696ms
1864	643:learn:	0.0138089	total:	1.25sremaining:	694ms
1865	644:learn:	0.0137739	total:	1.26sremaining:	691ms
1866	645:learn:	0.0137129	total:	1.26sremaining:	689ms
1867	646:learn:	0.0136751	total:	1.26sremaining:	688ms
1868	647:learn:	0.0136473	total:	1.26sremaining:	686ms
1869	648:learn:	0.0136132	total:	1.26sremaining:	684ms
1870	649:learn:	0.0135691	total:	1.26sremaining:	682ms
1871	650:learn:	0.0135475	total:	1.27sremaining:	680ms
1872	651:learn:	0.0135203	total:	1.27sremaining:	678ms
1873	652:learn:	0.0134933	total:	1.27sremaining:	676ms
1874	653:learn:	0.0134555	total:	1.27sremaining:	674ms
1875	654:learn:	0.0134182	total:	1.27sremaining:	672ms
1876	655:learn:	0.0133890	total:	1.28sremaining:	670ms
1877	656:learn:	0.0133669	total:	1.28sremaining:	668ms
1878	657:learn:	0.0133398	total:	1.28sremaining:	666ms
1879	658:learn:	0.0132933	total:	1.28sremaining:	664ms
1880	659:learn:	0.0132423	total:	1.28sremaining:	662ms
1881	660:learn:	0.0132150	total:	1.29sremaining:	660ms
1882	661:learn:	0.0131866	total:	1.29sremaining:	658ms
1883	662:learn:	0.0131513	total:	1.29sremaining:	656ms
1884	663:learn:	0.0131256	total:	1.29sremaining:	654ms
1885	664:learn:	0.0130956	total:	1.29sremaining:	652ms
1886	665:learn:	0.0130709	total:	1.3s remaining:	650ms
1887	666:learn:	0.0130289	total:	1.3s remaining:	649ms
1888	667:learn:	0.0129963	total:	1.3s remaining:	647ms
1889	668:learn:	0.0129577	total:	1.3s remaining:	645ms
1890	669:learn:	0.0129283	total:	1.3s remaining:	643ms
1891	670:learn:	0.0129091	total:	1.31sremaining:	641ms
1892	671:learn:	0.0128801	total:	1.31sremaining:	639ms
1893	672:learn:	0.0128459	total:	1.31sremaining:	637ms
1894	673:learn:	0.0128256	total:	1.31sremaining:	635ms
1895	674:learn:	0.0128006	total:	1.31sremaining:	633ms
1896	675:learn:	0.0127602	total:	1.32sremaining:	631ms
1897	676:learn:	0.0127346	total:	1.32sremaining:	630ms
1898	677:learn:	0.0127033	total:	1.32sremaining:	628ms
1899	678:learn:	0.0126677	total:	1.32sremaining:	626ms
1900	679:learn:	0.0126118	total:	1.32sremaining:	624ms
1901	680:learn:	0.0125821	total:	1.33sremaining:	622ms
1902	681:learn:	0.0125289	total:	1.33sremaining:	619ms
1903	682:learn:	0.0125049	total:	1.33sremaining:	617ms
1904	683:learn:	0.0124744	total:	1.33sremaining:	615ms
1905	684:learn:	0.0124371	total:	1.33sremaining:	613ms
1906	685:learn:	0.0124033	total:	1.33sremaining:	612ms
1907	686:learn:	0.0123746	total:	1.34sremaining:	610ms
1908	687:learn:	0.0123545	total:	1.34sremaining:	608ms
1909	688:learn:	0.0123313	total:	1.34sremaining:	606ms

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1910	689:learn:	0.0123096	total: 1.34sremaining: 604ms
1911	690:learn:	0.0122730	total: 1.34sremaining: 602ms
1912	691:learn:	0.0122477	total: 1.35sremaining: 600ms
1913	692:learn:	0.0122146	total: 1.35sremaining: 598ms
1914	693:learn:	0.0121887	total: 1.35sremaining: 596ms
1915	694:learn:	0.0121526	total: 1.35sremaining: 594ms
1916	695:learn:	0.0120926	total: 1.35sremaining: 591ms
1917	696:learn:	0.0120466	total: 1.35sremaining: 589ms
1918	697:learn:	0.0120284	total: 1.36sremaining: 587ms
1919	698:learn:	0.0120066	total: 1.36sremaining: 585ms
1920	699:learn:	0.0119826	total: 1.36sremaining: 584ms
1921	700:learn:	0.0119440	total: 1.36sremaining: 582ms
1922	701:learn:	0.0119152	total: 1.36sremaining: 580ms
1923	702:learn:	0.0118836	total: 1.37sremaining: 578ms
1924	703:learn:	0.0118521	total: 1.37sremaining: 576ms
1925	704:learn:	0.0118284	total: 1.37sremaining: 574ms
1926	705:learn:	0.0118079	total: 1.37sremaining: 572ms
1927	706:learn:	0.0117798	total: 1.37sremaining: 570ms
1928	707:learn:	0.0117616	total: 1.38sremaining: 568ms
1929	708:learn:	0.0117359	total: 1.38sremaining: 566ms
1930	709:learn:	0.0117163	total: 1.38sremaining: 564ms
1931	710:learn:	0.0116886	total: 1.38sremaining: 562ms
1932	711:learn:	0.0116624	total: 1.38sremaining: 560ms
1933	712:learn:	0.0116324	total: 1.39sremaining: 558ms
1934	713:learn:	0.0115915	total: 1.39sremaining: 556ms
1935	714:learn:	0.0115556	total: 1.39sremaining: 554ms
1936	715:learn:	0.0115215	total: 1.39sremaining: 552ms
1937	716:learn:	0.0115033	total: 1.39sremaining: 550ms
1938	717:learn:	0.0114783	total: 1.4s remaining: 548ms
1939	718:learn:	0.0114503	total: 1.4s remaining: 546ms
1940	719:learn:	0.0114290	total: 1.4s remaining: 544ms
1941	720:learn:	0.0113955	total: 1.4s remaining: 543ms
1942	721:learn:	0.0113684	total: 1.4s remaining: 541ms
1943	722:learn:	0.0113455	total: 1.41sremaining: 539ms
1944	723:learn:	0.0113156	total: 1.41sremaining: 537ms
1945	724:learn:	0.0112932	total: 1.41sremaining: 535ms
1946	725:learn:	0.0112640	total: 1.41sremaining: 533ms
1947	726:learn:	0.0112286	total: 1.41sremaining: 531ms
1948	727:learn:	0.0111907	total: 1.42sremaining: 529ms
1949	728:learn:	0.0111714	total: 1.42sremaining: 527ms
1950	729:learn:	0.0111492	total: 1.42sremaining: 525ms
1951	730:learn:	0.0111197	total: 1.42sremaining: 523ms
1952	731:learn:	0.0111044	total: 1.42sremaining: 521ms
1953	732:learn:	0.0110792	total: 1.43sremaining: 519ms
1954	733:learn:	0.0110543	total: 1.43sremaining: 517ms
1955	734:learn:	0.0110216	total: 1.43sremaining: 515ms
1956	735:learn:	0.0109891	total: 1.43sremaining: 513ms
1957	736:learn:	0.0109641	total: 1.43sremaining: 511ms
1958	737:learn:	0.0109405	total: 1.43sremaining: 509ms
1959	738:learn:	0.0109185	total: 1.44sremaining: 508ms
1960	739:learn:	0.0108813	total: 1.44sremaining: 506ms
1961	740:learn:	0.0108634	total: 1.44sremaining: 504ms
1962	741:learn:	0.0108366	total: 1.44sremaining: 502ms
1963	742:learn:	0.0108167	total: 1.45sremaining: 500ms
1964	743:learn:	0.0108000	total: 1.45sremaining: 498ms
1965	744:learn:	0.0107713	total: 1.45sremaining: 496ms
1966	745:learn:	0.0107521	total: 1.45sremaining: 494ms
1967	746:learn:	0.0107372	total: 1.45sremaining: 492ms
1968	747:learn:	0.0107132	total: 1.46sremaining: 490ms
1969	748:learn:	0.0106868	total: 1.46sremaining: 488ms
1970	749:learn:	0.0106663	total: 1.46sremaining: 486ms
1971	750:learn:	0.0106425	total: 1.46sremaining: 484ms
1972	751:learn:	0.0106137	total: 1.46sremaining: 482ms
1973	752:learn:	0.0105892	total: 1.46sremaining: 480ms
1974	753:learn:	0.0105565	total: 1.47sremaining: 478ms
1975	754:learn:	0.0105351	total: 1.47sremaining: 476ms
1976	755:learn:	0.0105148	total: 1.47sremaining: 475ms
1977	756:learn:	0.0104938	total: 1.47sremaining: 473ms
1978	757:learn:	0.0104598	total: 1.47sremaining: 471ms
1979	758:learn:	0.0104389	total: 1.48sremaining: 469ms
1980	759:learn:	0.0104209	total: 1.48sremaining: 467ms

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1981	760:learn:	0.0103911	total:	1.48sremaining:	465ms
1982	761:learn:	0.0103739	total:	1.48sremaining:	463ms
1983	762:learn:	0.0103523	total:	1.48sremaining:	461ms
1984	763:learn:	0.0103374	total:	1.49sremaining:	459ms
1985	764:learn:	0.0103174	total:	1.49sremaining:	457ms
1986	765:learn:	0.0102992	total:	1.49sremaining:	455ms
1987	766:learn:	0.0102803	total:	1.49sremaining:	453ms
1988	767:learn:	0.0102532	total:	1.49sremaining:	451ms
1989	768:learn:	0.0102312	total:	1.5s remaining:	449ms
1990	769:learn:	0.0102153	total:	1.5s remaining:	447ms
1991	770:learn:	0.0101854	total:	1.5s remaining:	445ms
1992	771:learn:	0.0101466	total:	1.5s remaining:	443ms
1993	772:learn:	0.0101230	total:	1.5s remaining:	441ms
1994	773:learn:	0.0101029	total:	1.5s remaining:	439ms
1995	774:learn:	0.0100844	total:	1.51sremaining:	437ms
1996	775:learn:	0.0100568	total:	1.51sremaining:	435ms
1997	776:learn:	0.0100400	total:	1.51sremaining:	433ms
1998	777:learn:	0.0100135	total:	1.51sremaining:	431ms
1999	778:learn:	0.0099974	total:	1.51sremaining:	429ms
2000	779:learn:	0.0099793	total:	1.51sremaining:	427ms
2001	780:learn:	0.0099535	total:	1.52sremaining:	426ms
2002	781:learn:	0.0099351	total:	1.52sremaining:	424ms
2003	782:learn:	0.0099170	total:	1.52sremaining:	422ms
2004	783:learn:	0.0098794	total:	1.52sremaining:	420ms
2005	784:learn:	0.0098587	total:	1.52sremaining:	418ms
2006	785:learn:	0.0098381	total:	1.53sremaining:	416ms
2007	786:learn:	0.0098255	total:	1.53sremaining:	414ms
2008	787:learn:	0.0097948	total:	1.53sremaining:	412ms
2009	788:learn:	0.0097671	total:	1.53sremaining:	410ms
2010	789:learn:	0.0097433	total:	1.53sremaining:	408ms
2011	790:learn:	0.0097204	total:	1.54sremaining:	406ms
2012	791:learn:	0.0097034	total:	1.54sremaining:	404ms
2013	792:learn:	0.0096808	total:	1.54sremaining:	402ms
2014	793:learn:	0.0096631	total:	1.54sremaining:	400ms
2015	794:learn:	0.0096449	total:	1.54sremaining:	398ms
2016	795:learn:	0.0096299	total:	1.55sremaining:	396ms
2017	796:learn:	0.0096130	total:	1.55sremaining:	394ms
2018	797:learn:	0.0095941	total:	1.55sremaining:	392ms
2019	798:learn:	0.0095707	total:	1.55sremaining:	390ms
2020	799:learn:	0.0095515	total:	1.55sremaining:	388ms
2021	800:learn:	0.0095338	total:	1.55sremaining:	386ms
2022	801:learn:	0.0095166	total:	1.56sremaining:	385ms
2023	802:learn:	0.0095006	total:	1.56sremaining:	383ms
2024	803:learn:	0.0094839	total:	1.56sremaining:	381ms
2025	804:learn:	0.0094663	total:	1.56sremaining:	379ms
2026	805:learn:	0.0094445	total:	1.56sremaining:	377ms
2027	806:learn:	0.0094273	total:	1.57sremaining:	375ms
2028	807:learn:	0.0094110	total:	1.57sremaining:	373ms
2029	808:learn:	0.0093919	total:	1.57sremaining:	371ms
2030	809:learn:	0.0093773	total:	1.57sremaining:	369ms
2031	810:learn:	0.0093641	total:	1.57sremaining:	367ms
2032	811:learn:	0.0093470	total:	1.58sremaining:	365ms
2033	812:learn:	0.0093321	total:	1.58sremaining:	363ms
2034	813:learn:	0.0093161	total:	1.58sremaining:	361ms
2035	814:learn:	0.0092988	total:	1.58sremaining:	359ms
2036	815:learn:	0.0092631	total:	1.58sremaining:	357ms
2037	816:learn:	0.0092468	total:	1.59sremaining:	355ms
2038	817:learn:	0.0092360	total:	1.59sremaining:	353ms
2039	818:learn:	0.0092154	total:	1.59sremaining:	352ms
2040	819:learn:	0.0091977	total:	1.59sremaining:	350ms
2041	820:learn:	0.0091822	total:	1.59sremaining:	348ms
2042	821:learn:	0.0091586	total:	1.6s remaining:	346ms
2043	822:learn:	0.0091417	total:	1.6s remaining:	344ms
2044	823:learn:	0.0091213	total:	1.6s remaining:	342ms
2045	824:learn:	0.0091061	total:	1.6s remaining:	340ms
2046	825:learn:	0.0090850	total:	1.6s remaining:	338ms
2047	826:learn:	0.0090650	total:	1.61sremaining:	336ms
2048	827:learn:	0.0090518	total:	1.61sremaining:	334ms
2049	828:learn:	0.0090384	total:	1.61sremaining:	332ms
2050	829:learn:	0.0090206	total:	1.61sremaining:	330ms
2051	830:learn:	0.0090057	total:	1.61sremaining:	328ms

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2052	831:learn:	0.0089915	total:	1.62sremaining:	326ms
2053	832:learn:	0.0089788	total:	1.62sremaining:	324ms
2054	833:learn:	0.0089658	total:	1.62sremaining:	323ms
2055	834:learn:	0.0089501	total:	1.62sremaining:	321ms
2056	835:learn:	0.0089374	total:	1.62sremaining:	319ms
2057	836:learn:	0.0089223	total:	1.63sremaining:	317ms
2058	837:learn:	0.0089105	total:	1.63sremaining:	315ms
2059	838:learn:	0.0088959	total:	1.63sremaining:	313ms
2060	839:learn:	0.0088759	total:	1.63sremaining:	311ms
2061	840:learn:	0.0088498	total:	1.63sremaining:	309ms
2062	841:learn:	0.0088328	total:	1.64sremaining:	307ms
2063	842:learn:	0.0088185	total:	1.64sremaining:	305ms
2064	843:learn:	0.0088049	total:	1.64sremaining:	303ms
2065	844:learn:	0.0087927	total:	1.64sremaining:	301ms
2066	845:learn:	0.0087781	total:	1.64sremaining:	299ms
2067	846:learn:	0.0087628	total:	1.65sremaining:	297ms
2068	847:learn:	0.0087463	total:	1.65sremaining:	295ms
2069	848:learn:	0.0087297	total:	1.65sremaining:	293ms
2070	849:learn:	0.0087041	total:	1.65sremaining:	291ms
2071	850:learn:	0.0086779	total:	1.65sremaining:	289ms
2072	851:learn:	0.0086660	total:	1.66sremaining:	287ms
2073	852:learn:	0.0086476	total:	1.66sremaining:	286ms
2074	853:learn:	0.0086335	total:	1.66sremaining:	284ms
2075	854:learn:	0.0086136	total:	1.66sremaining:	282ms
2076	855:learn:	0.0086008	total:	1.66sremaining:	280ms
2077	856:learn:	0.0085858	total:	1.66sremaining:	278ms
2078	857:learn:	0.0085699	total:	1.67sremaining:	276ms
2079	858:learn:	0.0085591	total:	1.67sremaining:	274ms
2080	859:learn:	0.0085418	total:	1.67sremaining:	272ms
2081	860:learn:	0.0085276	total:	1.67sremaining:	270ms
2082	861:learn:	0.0085140	total:	1.67sremaining:	268ms
2083	862:learn:	0.0085034	total:	1.68sremaining:	266ms
2084	863:learn:	0.0084868	total:	1.68sremaining:	264ms
2085	864:learn:	0.0084596	total:	1.68sremaining:	262ms
2086	865:learn:	0.0084484	total:	1.68sremaining:	260ms
2087	866:learn:	0.0084329	total:	1.68sremaining:	258ms
2088	867:learn:	0.0084172	total:	1.69sremaining:	256ms
2089	868:learn:	0.0083986	total:	1.69sremaining:	254ms
2090	869:learn:	0.0083857	total:	1.69sremaining:	252ms
2091	870:learn:	0.0083697	total:	1.69sremaining:	250ms
2092	871:learn:	0.0083468	total:	1.69sremaining:	249ms
2093	872:learn:	0.0083252	total:	1.7s remaining:	247ms
2094	873:learn:	0.0083100	total:	1.7s remaining:	245ms
2095	874:learn:	0.0082910	total:	1.7s remaining:	243ms
2096	875:learn:	0.0082769	total:	1.7s remaining:	241ms
2097	876:learn:	0.0082597	total:	1.7s remaining:	239ms
2098	877:learn:	0.0082427	total:	1.7s remaining:	237ms
2099	878:learn:	0.0082335	total:	1.71sremaining:	235ms
2100	879:learn:	0.0082130	total:	1.71sremaining:	233ms
2101	880:learn:	0.0081987	total:	1.71sremaining:	231ms
2102	881:learn:	0.0081840	total:	1.71sremaining:	229ms
2103	882:learn:	0.0081690	total:	1.71sremaining:	227ms
2104	883:learn:	0.0081612	total:	1.72sremaining:	225ms
2105	884:learn:	0.0081505	total:	1.72sremaining:	223ms
2106	885:learn:	0.0081389	total:	1.72sremaining:	221ms
2107	886:learn:	0.0081226	total:	1.72sremaining:	219ms
2108	887:learn:	0.0081097	total:	1.72sremaining:	217ms
2109	888:learn:	0.0080899	total:	1.73sremaining:	216ms
2110	889:learn:	0.0080772	total:	1.73sremaining:	214ms
2111	890:learn:	0.0080586	total:	1.73sremaining:	212ms
2112	891:learn:	0.0080461	total:	1.73sremaining:	210ms
2113	892:learn:	0.0080353	total:	1.73sremaining:	208ms
2114	893:learn:	0.0080233	total:	1.74sremaining:	206ms
2115	894:learn:	0.0079941	total:	1.74sremaining:	204ms
2116	895:learn:	0.0079860	total:	1.74sremaining:	202ms
2117	896:learn:	0.0079758	total:	1.74sremaining:	200ms
2118	897:learn:	0.0079645	total:	1.74sremaining:	198ms
2119	898:learn:	0.0079523	total:	1.75sremaining:	196ms
2120	899:learn:	0.0079366	total:	1.75sremaining:	194ms
2121	900:learn:	0.0079244	total:	1.75sremaining:	192ms
2122	901:learn:	0.0079120	total:	1.75sremaining:	190ms

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2123	902:learn:	0.0078983	total:	1.75sremaining:	189ms
2124	903:learn:	0.0078882	total:	1.76sremaining:	187ms
2125	904:learn:	0.0078772	total:	1.76sremaining:	185ms
2126	905:learn:	0.0078670	total:	1.76sremaining:	183ms
2127	906:learn:	0.0078504	total:	1.76sremaining:	181ms
2128	907:learn:	0.0078390	total:	1.76sremaining:	179ms
2129	908:learn:	0.0078229	total:	1.77sremaining:	177ms
2130	909:learn:	0.0078123	total:	1.77sremaining:	175ms
2131	910:learn:	0.0077995	total:	1.77sremaining:	173ms
2132	911:learn:	0.0077903	total:	1.77sremaining:	171ms
2133	912:learn:	0.0077769	total:	1.78sremaining:	169ms
2134	913:learn:	0.0077594	total:	1.78sremaining:	167ms
2135	914:learn:	0.0077439	total:	1.78sremaining:	165ms
2136	915:learn:	0.0077331	total:	1.78sremaining:	163ms
2137	916:learn:	0.0077218	total:	1.78sremaining:	162ms
2138	917:learn:	0.0077113	total:	1.79sremaining:	160ms
2139	918:learn:	0.0077002	total:	1.79sremaining:	158ms
2140	919:learn:	0.0076850	total:	1.79sremaining:	156ms
2141	920:learn:	0.0076741	total:	1.79sremaining:	154ms
2142	921:learn:	0.0076634	total:	1.79sremaining:	152ms
2143	922:learn:	0.0076538	total:	1.8s remaining:	150ms
2144	923:learn:	0.0076437	total:	1.8s remaining:	148ms
2145	924:learn:	0.0076330	total:	1.8s remaining:	146ms
2146	925:learn:	0.0076212	total:	1.8s remaining:	144ms
2147	926:learn:	0.0075980	total:	1.8s remaining:	142ms
2148	927:learn:	0.0075886	total:	1.81sremaining:	140ms
2149	928:learn:	0.0075756	total:	1.81sremaining:	138ms
2150	929:learn:	0.0075684	total:	1.81sremaining:	136ms
2151	930:learn:	0.0075574	total:	1.81sremaining:	134ms
2152	931:learn:	0.0075429	total:	1.81sremaining:	132ms
2153	932:learn:	0.0075306	total:	1.81sremaining:	130ms
2154	933:learn:	0.0075207	total:	1.82sremaining:	128ms
2155	934:learn:	0.0075103	total:	1.82sremaining:	127ms
2156	935:learn:	0.0074977	total:	1.82sremaining:	125ms
2157	936:learn:	0.0074868	total:	1.82sremaining:	123ms
2158	937:learn:	0.0074729	total:	1.82sremaining:	121ms
2159	938:learn:	0.0074614	total:	1.83sremaining:	119ms
2160	939:learn:	0.0074454	total:	1.83sremaining:	117ms
2161	940:learn:	0.0074310	total:	1.83sremaining:	115ms
2162	941:learn:	0.0074176	total:	1.83sremaining:	113ms
2163	942:learn:	0.0074079	total:	1.83sremaining:	111ms
2164	943:learn:	0.0073967	total:	1.84sremaining:	109ms
2165	944:learn:	0.0073905	total:	1.84sremaining:	107ms
2166	945:learn:	0.0073812	total:	1.84sremaining:	105ms
2167	946:learn:	0.0073657	total:	1.84sremaining:	103ms
2168	947:learn:	0.0073562	total:	1.84sremaining:	101ms
2169	948:learn:	0.0073453	total:	1.85sremaining:	99.3ms
2170	949:learn:	0.0073370	total:	1.85sremaining:	97.3ms
2171	950:learn:	0.0073286	total:	1.85sremaining:	95.4ms
2172	951:learn:	0.0073121	total:	1.85sremaining:	93.4ms
2173	952:learn:	0.0073030	total:	1.85sremaining:	91.5ms
2174	953:learn:	0.0072887	total:	1.86sremaining:	89.5ms
2175	954:learn:	0.0072777	total:	1.86sremaining:	87.6ms
2176	955:learn:	0.0072698	total:	1.86sremaining:	85.6ms
2177	956:learn:	0.0072615	total:	1.86sremaining:	83.7ms
2178	957:learn:	0.0072518	total:	1.86sremaining:	81.7ms
2179	958:learn:	0.0072335	total:	1.87sremaining:	79.8ms
2180	959:learn:	0.0072207	total:	1.87sremaining:	77.8ms
2181	960:learn:	0.0072119	total:	1.87sremaining:	75.9ms
2182	961:learn:	0.0072036	total:	1.87sremaining:	74ms
2183	962:learn:	0.0071940	total:	1.87sremaining:	72ms
2184	963:learn:	0.0071820	total:	1.88sremaining:	70.1ms
2185	964:learn:	0.0071730	total:	1.88sremaining:	68.1ms
2186	965:learn:	0.0071615	total:	1.88sremaining:	66.2ms
2187	966:learn:	0.0071511	total:	1.88sremaining:	64.2ms
2188	967:learn:	0.0071415	total:	1.88sremaining:	62.3ms
2189	968:learn:	0.0071350	total:	1.89sremaining:	60.3ms
2190	969:learn:	0.0071260	total:	1.89sremaining:	58.4ms
2191	970:learn:	0.0071088	total:	1.89sremaining:	56.4ms
2192	971:learn:	0.0070998	total:	1.89sremaining:	54.5ms
2193	972:learn:	0.0070820	total:	1.89sremaining:	52.5ms

demo

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2194 973:learn: 0.0070742 total: 1.89sremaining: 50.6ms
2195 974:learn: 0.0070658 total: 1.9s remaining: 48.6ms
2196 975:learn: 0.0070555 total: 1.9s remaining: 46.7ms
2197 976:learn: 0.0070445 total: 1.9s remaining: 44.7ms
2198 977:learn: 0.0070360 total: 1.9s remaining: 42.8ms
2199 978:learn: 0.0070197 total: 1.9s remaining: 40.9ms
2200 979:learn: 0.0070088 total: 1.91sremaining: 38.9ms
2201 980:learn: 0.0069998 total: 1.91sremaining: 37ms
2202 981:learn: 0.0069880 total: 1.91sremaining: 35ms
2203 982:learn: 0.0069719 total: 1.91sremaining: 33.1ms
2204 983:learn: 0.0069643 total: 1.91sremaining: 31.1ms
2205 984:learn: 0.0069512 total: 1.92sremaining: 29.2ms
2206 985:learn: 0.0069402 total: 1.92sremaining: 27.2ms
2207 986:learn: 0.0069293 total: 1.92sremaining: 25.3ms
2208 987:learn: 0.0069229 total: 1.92sremaining: 23.3ms
2209 988:learn: 0.0069139 total: 1.92sremaining: 21.4ms
2210 989:learn: 0.0069067 total: 1.93sremaining: 19.5ms
2211 990:learn: 0.0068987 total: 1.93sremaining: 17.5ms
2212 991:learn: 0.0068878 total: 1.93sremaining: 15.6ms
2213 992:learn: 0.0068755 total: 1.93sremaining: 13.6ms
2214 993:learn: 0.0068678 total: 1.93sremaining: 11.7ms
2215 994:learn: 0.0068580 total: 1.94sremaining: 9.73ms
2216 995:learn: 0.0068427 total: 1.94sremaining: 7.78ms
2217 996:learn: 0.0068309 total: 1.94sremaining: 5.84ms
2218 997:learn: 0.0068185 total: 1.94sremaining: 3.89ms
2219 998:learn: 0.0068058 total: 1.94sremaining: 1.95ms
2220 999:learn: 0.0067896 total: 1.95sremaining: 0us
2221 current noise type: None
2222 {'Samples': 5216, 'Features': 64, 'Anomalies': 150, 'Anomalies Ratio(%)': 2.88}
2223 Evaluating on dataset: 26_optdigits
2224 X_train shape: (260, 64)
2225 X_test shape: (4956, 64)
2226 Training size: 260, No. outliers: 1
2227 Epoch 1/50
2228 20/20 [=====] - 0s 5ms/step - loss: 2.5826
2229 Epoch 2/50
2230 20/20 [=====] - 0s 5ms/step - loss: 2.1171
2231 Epoch 3/50
2232 20/20 [=====] - 0s 5ms/step - loss: 1.7277
2233 Epoch 4/50
2234 20/20 [=====] - 0s 5ms/step - loss: 1.3439
2235 Epoch 5/50
2236 20/20 [=====] - 0s 5ms/step - loss: 0.9453
2237 Epoch 6/50
2238 20/20 [=====] - 0s 5ms/step - loss: 0.6453
2239 Epoch 7/50
2240 20/20 [=====] - 0s 6ms/step - loss: 0.5777
2241 Epoch 8/50
2242 20/20 [=====] - 0s 5ms/step - loss: 0.5332
2243 Epoch 9/50
2244 20/20 [=====] - 0s 5ms/step - loss: 0.4836
2245 Epoch 10/50
2246 20/20 [=====] - 0s 5ms/step - loss: 0.4434
2247 Epoch 11/50
2248 20/20 [=====] - 0s 5ms/step - loss: 0.3996
2249 Epoch 12/50
2250 20/20 [=====] - 0s 5ms/step - loss: 0.3713
2251 Epoch 13/50
2252 20/20 [=====] - 0s 5ms/step - loss: 0.3397
2253 Epoch 14/50
2254 20/20 [=====] - 0s 5ms/step - loss: 0.3247
2255 Epoch 15/50
2256 20/20 [=====] - 0s 5ms/step - loss: 0.3051
2257 Epoch 16/50
2258 20/20 [=====] - 0s 5ms/step - loss: 0.2920
2259 Epoch 17/50
2260 20/20 [=====] - 0s 5ms/step - loss: 0.2825
2261 Epoch 18/50
2262 20/20 [=====] - 0s 5ms/step - loss: 0.2689
2263 Epoch 19/50
2264 20/20 [=====] - 0s 5ms/step - loss: 0.2589
```


demo

```
2265 Epoch 20/50
2266 20/20 [=====] - 0s 5ms/step - loss: 0.2521
2267 Epoch 21/50
2268 20/20 [=====] - 0s 5ms/step - loss: 0.2463
2269 Epoch 22/50
2270 20/20 [=====] - 0s 5ms/step - loss: 0.2386
2271 Epoch 23/50
2272 20/20 [=====] - 0s 5ms/step - loss: 0.2296
2273 Epoch 24/50
2274 20/20 [=====] - 0s 5ms/step - loss: 0.2290
2275 Epoch 25/50
2276 20/20 [=====] - 0s 5ms/step - loss: 0.2183
2277 Epoch 26/50
2278 20/20 [=====] - 0s 5ms/step - loss: 0.2206
2279 Epoch 27/50
2280 20/20 [=====] - 0s 5ms/step - loss: 0.2127
2281 Epoch 28/50
2282 20/20 [=====] - 0s 5ms/step - loss: 0.2109
2283 Epoch 29/50
2284 20/20 [=====] - 0s 5ms/step - loss: 0.2047
2285 Epoch 30/50
2286 20/20 [=====] - 0s 5ms/step - loss: 0.2009
2287 Epoch 31/50
2288 20/20 [=====] - 0s 5ms/step - loss: 0.2019
2289 Epoch 32/50
2290 20/20 [=====] - 0s 5ms/step - loss: 0.1989
2291 Epoch 33/50
2292 20/20 [=====] - 0s 5ms/step - loss: 0.1935
2293 Epoch 34/50
2294 20/20 [=====] - 0s 5ms/step - loss: 0.1906
2295 Epoch 35/50
2296 20/20 [=====] - 0s 5ms/step - loss: 0.1895
2297 Epoch 36/50
2298 20/20 [=====] - 0s 5ms/step - loss: 0.1838
2299 Epoch 37/50
2300 20/20 [=====] - 0s 5ms/step - loss: 0.1882
2301 Epoch 38/50
2302 20/20 [=====] - 0s 5ms/step - loss: 0.1803
2303 Epoch 39/50
2304 20/20 [=====] - 0s 5ms/step - loss: 0.1802
2305 Epoch 40/50
2306 20/20 [=====] - 0s 5ms/step - loss: 0.1800
2307 Epoch 41/50
2308 20/20 [=====] - 0s 5ms/step - loss: 0.1789
2309 Epoch 42/50
2310 20/20 [=====] - 0s 5ms/step - loss: 0.1789
2311 Epoch 43/50
2312 20/20 [=====] - 0s 5ms/step - loss: 0.1752
2313 Epoch 44/50
2314 20/20 [=====] - 0s 5ms/step - loss: 0.1719
2315 Epoch 45/50
2316 20/20 [=====] - 0s 5ms/step - loss: 0.1732
2317 Epoch 46/50
2318 20/20 [=====] - 0s 5ms/step - loss: 0.1694
2319 Epoch 47/50
2320 20/20 [=====] - 0s 5ms/step - loss: 0.1710
2321 Epoch 48/50
2322 20/20 [=====] - 0s 5ms/step - loss: 0.1679
2323 Epoch 49/50
2324 20/20 [=====] - 0s 5ms/step - loss: 0.1658
2325 Epoch 50/50
2326 20/20 [=====] - 0s 5ms/step - loss: 0.1676
2327 Learning rate set to 0.005796
2328 0: learn: 0.6834417 total: 1.23ms remaining: 1.22s
2329 1: learn: 0.6741598 total: 2.46ms remaining: 1.23s
2330 2: learn: 0.6639152 total: 3.21ms remaining: 1.07s
2331 3: learn: 0.6548754 total: 3.93ms remaining: 978ms
2332 4: learn: 0.6438988 total: 4.6ms remaining: 916ms
2333 5: learn: 0.6339665 total: 5.35ms remaining: 887ms
2334 6: learn: 0.6244240 total: 6.15ms remaining: 873ms
2335 7: learn: 0.6140970 total: 6.99ms remaining: 866ms
```

demo

2336	8:	learn:	0.6041255	total:	7.7ms	remaining:	848ms
2337	9:	learn:	0.5945119	total:	8.55ms	remaining:	847ms
2338	10:	learn:	0.5847414	total:	9.31ms	remaining:	837ms
2339	11:	learn:	0.5750500	total:	10.1ms	remaining:	834ms
2340	12:	learn:	0.5656590	total:	10.9ms	remaining:	829ms
2341	13:	learn:	0.5553730	total:	11.8ms	remaining:	828ms
2342	14:	learn:	0.5472892	total:	12.5ms	remaining:	822ms
2343	15:	learn:	0.5396182	total:	13.2ms	remaining:	815ms
2344	16:	learn:	0.5315384	total:	14.1ms	remaining:	814ms
2345	17:	learn:	0.5237326	total:	15ms	remaining:	816ms
2346	18:	learn:	0.5167091	total:	15.8ms	remaining:	813ms
2347	19:	learn:	0.5093289	total:	16.7ms	remaining:	817ms
2348	20:	learn:	0.5024371	total:	17.4ms	remaining:	811ms
2349	21:	learn:	0.4946168	total:	18.1ms	remaining:	807ms
2350	22:	learn:	0.4873187	total:	19ms	remaining:	807ms
2351	23:	learn:	0.4796306	total:	19.8ms	remaining:	806ms
2352	24:	learn:	0.4730353	total:	20.5ms	remaining:	800ms
2353	25:	learn:	0.4647143	total:	21.2ms	remaining:	795ms
2354	26:	learn:	0.4587334	total:	22ms	remaining:	794ms
2355	27:	learn:	0.4519399	total:	22.7ms	remaining:	789ms
2356	28:	learn:	0.4449906	total:	23.5ms	remaining:	787ms
2357	29:	learn:	0.4380924	total:	24.3ms	remaining:	786ms
2358	30:	learn:	0.4320165	total:	25ms	remaining:	782ms
2359	31:	learn:	0.4256635	total:	25.7ms	remaining:	777ms
2360	32:	learn:	0.4195960	total:	26.5ms	remaining:	777ms
2361	33:	learn:	0.4131871	total:	27.4ms	remaining:	780ms
2362	34:	learn:	0.4072863	total:	28.2ms	remaining:	777ms
2363	35:	learn:	0.4016329	total:	28.9ms	remaining:	774ms
2364	36:	learn:	0.3956675	total:	29.8ms	remaining:	775ms
2365	37:	learn:	0.3903824	total:	30.6ms	remaining:	773ms
2366	38:	learn:	0.3837104	total:	31.3ms	remaining:	772ms
2367	39:	learn:	0.3784084	total:	32ms	remaining:	769ms
2368	40:	learn:	0.3723904	total:	32.8ms	remaining:	767ms
2369	41:	learn:	0.3665950	total:	33.6ms	remaining:	767ms
2370	42:	learn:	0.3622762	total:	34.5ms	remaining:	767ms
2371	43:	learn:	0.3571745	total:	35.2ms	remaining:	765ms
2372	44:	learn:	0.3522766	total:	35.9ms	remaining:	762ms
2373	45:	learn:	0.3465764	total:	36.7ms	remaining:	760ms
2374	46:	learn:	0.3424882	total:	37.5ms	remaining:	760ms
2375	47:	learn:	0.3373944	total:	38.4ms	remaining:	761ms
2376	48:	learn:	0.3323982	total:	39.1ms	remaining:	760ms
2377	49:	learn:	0.3278164	total:	39.9ms	remaining:	757ms
2378	50:	learn:	0.3230106	total:	40.6ms	remaining:	756ms
2379	51:	learn:	0.3185697	total:	41.4ms	remaining:	754ms
2380	52:	learn:	0.3147766	total:	42.1ms	remaining:	752ms
2381	53:	learn:	0.3107280	total:	42.8ms	remaining:	749ms
2382	54:	learn:	0.3057421	total:	43.5ms	remaining:	747ms
2383	55:	learn:	0.3011392	total:	44.3ms	remaining:	747ms
2384	56:	learn:	0.2972824	total:	45.1ms	remaining:	745ms
2385	57:	learn:	0.2923947	total:	45.8ms	remaining:	744ms
2386	58:	learn:	0.2883100	total:	46.5ms	remaining:	742ms
2387	59:	learn:	0.2839084	total:	47.3ms	remaining:	741ms
2388	60:	learn:	0.2792436	total:	48.1ms	remaining:	740ms
2389	61:	learn:	0.2746172	total:	48.6ms	remaining:	735ms
2390	62:	learn:	0.2714280	total:	49.3ms	remaining:	733ms
2391	63:	learn:	0.2674044	total:	50.1ms	remaining:	733ms
2392	64:	learn:	0.2635599	total:	50.9ms	remaining:	732ms
2393	65:	learn:	0.2594175	total:	51.6ms	remaining:	730ms
2394	66:	learn:	0.2560496	total:	52.3ms	remaining:	729ms
2395	67:	learn:	0.2521938	total:	53.1ms	remaining:	727ms
2396	68:	learn:	0.2490141	total:	53.9ms	remaining:	727ms
2397	69:	learn:	0.2454687	total:	54.6ms	remaining:	726ms
2398	70:	learn:	0.2417157	total:	55.4ms	remaining:	725ms
2399	71:	learn:	0.2380141	total:	56.1ms	remaining:	723ms
2400	72:	learn:	0.2345999	total:	56.7ms	remaining:	721ms
2401	73:	learn:	0.2319311	total:	57.5ms	remaining:	719ms
2402	74:	learn:	0.2289230	total:	58.2ms	remaining:	718ms
2403	75:	learn:	0.2257329	total:	58.9ms	remaining:	716ms
2404	76:	learn:	0.2225713	total:	59.7ms	remaining:	716ms
2405	77:	learn:	0.2195552	total:	60.5ms	remaining:	715ms
2406	78:	learn:	0.2165565	total:	61.1ms	remaining:	713ms

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2407	79:	learn:	0.2133042	total:	61.9ms	remaining:	711ms
2408	80:	learn:	0.2106170	total:	62.6ms	remaining:	710ms
2409	81:	learn:	0.2082124	total:	63.3ms	remaining:	708ms
2410	82:	learn:	0.2060012	total:	64.1ms	remaining:	708ms
2411	83:	learn:	0.2036615	total:	64.8ms	remaining:	707ms
2412	84:	learn:	0.2009409	total:	65.5ms	remaining:	705ms
2413	85:	learn:	0.1983938	total:	66.2ms	remaining:	704ms
2414	86:	learn:	0.1963354	total:	67.1ms	remaining:	704ms
2415	87:	learn:	0.1944030	total:	67.9ms	remaining:	704ms
2416	88:	learn:	0.1923379	total:	68.7ms	remaining:	703ms
2417	89:	learn:	0.1902882	total:	69.6ms	remaining:	703ms
2418	90:	learn:	0.1883891	total:	70.4ms	remaining:	704ms
2419	91:	learn:	0.1860964	total:	71.2ms	remaining:	703ms
2420	92:	learn:	0.1834117	total:	72ms	remaining:	702ms
2421	93:	learn:	0.1813565	total:	72.7ms	remaining:	701ms
2422	94:	learn:	0.1792997	total:	73.5ms	remaining:	700ms
2423	95:	learn:	0.1770226	total:	74.3ms	remaining:	699ms
2424	96:	learn:	0.1753031	total:	75ms	remaining:	698ms
2425	97:	learn:	0.1730477	total:	75.8ms	remaining:	698ms
2426	98:	learn:	0.1711929	total:	76.6ms	remaining:	697ms
2427	99:	learn:	0.1692918	total:	77.3ms	remaining:	695ms
2428	100:	learn:	0.1673555	total:	78ms	remaining:	694ms
2429	101:	learn:	0.1654673	total:	78.7ms	remaining:	692ms
2430	102:	learn:	0.1636130	total:	79.4ms	remaining:	692ms
2431	103:	learn:	0.1617598	total:	80.1ms	remaining:	690ms
2432	104:	learn:	0.1597847	total:	80.9ms	remaining:	690ms
2433	105:	learn:	0.1581722	total:	81.7ms	remaining:	689ms
2434	106:	learn:	0.1565067	total:	82.5ms	remaining:	689ms
2435	107:	learn:	0.1547416	total:	83.3ms	remaining:	688ms
2436	108:	learn:	0.1527341	total:	84.1ms	remaining:	687ms
2437	109:	learn:	0.1509589	total:	84.8ms	remaining:	686ms
2438	110:	learn:	0.1490976	total:	85.5ms	remaining:	685ms
2439	111:	learn:	0.1473136	total:	86.2ms	remaining:	684ms
2440	112:	learn:	0.1459520	total:	87.1ms	remaining:	684ms
2441	113:	learn:	0.1445107	total:	87.8ms	remaining:	683ms
2442	114:	learn:	0.1425951	total:	88.6ms	remaining:	682ms
2443	115:	learn:	0.1411007	total:	89.4ms	remaining:	681ms
2444	116:	learn:	0.1391882	total:	90.1ms	remaining:	680ms
2445	117:	learn:	0.1375336	total:	90.8ms	remaining:	679ms
2446	118:	learn:	0.1357802	total:	91.5ms	remaining:	678ms
2447	119:	learn:	0.1346023	total:	92.3ms	remaining:	677ms
2448	120:	learn:	0.1331328	total:	92.9ms	remaining:	675ms
2449	121:	learn:	0.1315072	total:	93.7ms	remaining:	674ms
2450	122:	learn:	0.1301336	total:	94.5ms	remaining:	674ms
2451	123:	learn:	0.1288839	total:	95.2ms	remaining:	673ms
2452	124:	learn:	0.1275399	total:	95.9ms	remaining:	672ms
2453	125:	learn:	0.1260125	total:	96.8ms	remaining:	672ms
2454	126:	learn:	0.1247594	total:	97.6ms	remaining:	671ms
2455	127:	learn:	0.1235757	total:	98.3ms	remaining:	670ms
2456	128:	learn:	0.1222751	total:	99ms	remaining:	668ms
2457	129:	learn:	0.1207117	total:	99.8ms	remaining:	668ms
2458	130:	learn:	0.1198081	total:	101ms	remaining:	667ms
2459	131:	learn:	0.1189457	total:	101ms	remaining:	666ms
2460	132:	learn:	0.1177639	total:	102ms	remaining:	666ms
2461	133:	learn:	0.1168700	total:	103ms	remaining:	664ms
2462	134:	learn:	0.1155795	total:	103ms	remaining:	663ms
2463	135:	learn:	0.1142409	total:	104ms	remaining:	663ms
2464	136:	learn:	0.1131196	total:	105ms	remaining:	661ms
2465	137:	learn:	0.1121222	total:	106ms	remaining:	660ms
2466	138:	learn:	0.1110992	total:	107ms	remaining:	660ms
2467	139:	learn:	0.1097724	total:	107ms	remaining:	659ms
2468	140:	learn:	0.1086318	total:	108ms	remaining:	658ms
2469	141:	learn:	0.1074646	total:	109ms	remaining:	657ms
2470	142:	learn:	0.1065276	total:	110ms	remaining:	657ms
2471	143:	learn:	0.1055792	total:	110ms	remaining:	656ms
2472	144:	learn:	0.1047542	total:	111ms	remaining:	655ms
2473	145:	learn:	0.1033301	total:	112ms	remaining:	653ms
2474	146:	learn:	0.1023784	total:	112ms	remaining:	652ms
2475	147:	learn:	0.1016671	total:	113ms	remaining:	652ms
2476	148:	learn:	0.1008341	total:	114ms	remaining:	651ms
2477	149:	learn:	0.0991156	total:	115ms	remaining:	650ms

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2478	150:learn:	0.0981276	total:	115msremaining:	649ms
2479	151:learn:	0.0973885	total:	116msremaining:	648ms
2480	152:learn:	0.0963876	total:	117msremaining:	647ms
2481	153:learn:	0.0954662	total:	118msremaining:	646ms
2482	154:learn:	0.0945684	total:	118msremaining:	645ms
2483	155:learn:	0.0937248	total:	119msremaining:	645ms
2484	156:learn:	0.0928973	total:	120msremaining:	644ms
2485	157:learn:	0.0920244	total:	121msremaining:	644ms
2486	158:learn:	0.0912579	total:	122msremaining:	643ms
2487	159:learn:	0.0906841	total:	122msremaining:	643ms
2488	160:learn:	0.0899749	total:	123msremaining:	643ms
2489	161:learn:	0.0887809	total:	124msremaining:	642ms
2490	162:learn:	0.0879938	total:	125msremaining:	642ms
2491	163:learn:	0.0871578	total:	126msremaining:	641ms
2492	164:learn:	0.0862259	total:	126msremaining:	640ms
2493	165:learn:	0.0850312	total:	127msremaining:	640ms
2494	166:learn:	0.0840621	total:	128msremaining:	639ms
2495	167:learn:	0.0834727	total:	129msremaining:	637ms
2496	168:learn:	0.0827710	total:	129msremaining:	637ms
2497	169:learn:	0.0822056	total:	130msremaining:	636ms
2498	170:learn:	0.0816320	total:	131msremaining:	635ms
2499	171:learn:	0.0809930	total:	132msremaining:	634ms
2500	172:learn:	0.0802246	total:	132msremaining:	633ms
2501	173:learn:	0.0796120	total:	133msremaining:	632ms
2502	174:learn:	0.0789975	total:	134msremaining:	632ms
2503	175:learn:	0.0785841	total:	135msremaining:	631ms
2504	176:learn:	0.0777414	total:	135msremaining:	630ms
2505	177:learn:	0.0769327	total:	136msremaining:	629ms
2506	178:learn:	0.0762529	total:	137msremaining:	628ms
2507	179:learn:	0.0755975	total:	138msremaining:	627ms
2508	180:learn:	0.0749743	total:	138msremaining:	626ms
2509	181:learn:	0.0743071	total:	139msremaining:	626ms
2510	182:learn:	0.0736984	total:	140msremaining:	625ms
2511	183:learn:	0.0726932	total:	140msremaining:	623ms
2512	184:learn:	0.0721305	total:	141msremaining:	622ms
2513	185:learn:	0.0716180	total:	142msremaining:	621ms
2514	186:learn:	0.0708897	total:	143msremaining:	620ms
2515	187:learn:	0.0704572	total:	143msremaining:	619ms
2516	188:learn:	0.0699117	total:	144msremaining:	618ms
2517	189:learn:	0.0693276	total:	145msremaining:	617ms
2518	190:learn:	0.0687684	total:	146msremaining:	616ms
2519	191:learn:	0.0682168	total:	146msremaining:	616ms
2520	192:learn:	0.0677681	total:	147msremaining:	615ms
2521	193:learn:	0.0670845	total:	148msremaining:	614ms
2522	194:learn:	0.0666849	total:	149msremaining:	613ms
2523	195:learn:	0.0661552	total:	149msremaining:	612ms
2524	196:learn:	0.0656359	total:	150msremaining:	612ms
2525	197:learn:	0.0652610	total:	151msremaining:	611ms
2526	198:learn:	0.0648544	total:	151msremaining:	610ms
2527	199:learn:	0.0642778	total:	152msremaining:	609ms
2528	200:learn:	0.0637019	total:	153msremaining:	608ms
2529	201:learn:	0.0632286	total:	154msremaining:	607ms
2530	202:learn:	0.0627152	total:	154msremaining:	606ms
2531	203:learn:	0.0622058	total:	155msremaining:	605ms
2532	204:learn:	0.0615975	total:	156msremaining:	604ms
2533	205:learn:	0.0610685	total:	156msremaining:	603ms
2534	206:learn:	0.0606382	total:	157msremaining:	603ms
2535	207:learn:	0.0602141	total:	158msremaining:	602ms
2536	208:learn:	0.0598968	total:	159msremaining:	601ms
2537	209:learn:	0.0593607	total:	160msremaining:	601ms
2538	210:learn:	0.0588650	total:	161msremaining:	600ms
2539	211:learn:	0.0583460	total:	161msremaining:	599ms
2540	212:learn:	0.0579068	total:	162msremaining:	598ms
2541	213:learn:	0.0574436	total:	163msremaining:	598ms
2542	214:learn:	0.0569912	total:	163msremaining:	597ms
2543	215:learn:	0.0565815	total:	164msremaining:	596ms
2544	216:learn:	0.0562211	total:	165msremaining:	595ms
2545	217:learn:	0.0557674	total:	166msremaining:	594ms
2546	218:learn:	0.0554068	total:	166msremaining:	593ms
2547	219:learn:	0.0549473	total:	167msremaining:	592ms
2548	220:learn:	0.0545902	total:	168msremaining:	592ms

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2549	221:learn:	0.0542445	total:	169msremaining:	591ms
2550	222:learn:	0.0539186	total:	169msremaining:	590ms
2551	223:learn:	0.0535393	total:	170msremaining:	589ms
2552	224:learn:	0.0530997	total:	171msremaining:	588ms
2553	225:learn:	0.0527851	total:	172msremaining:	588ms
2554	226:learn:	0.0524932	total:	172msremaining:	587ms
2555	227:learn:	0.0519992	total:	173msremaining:	586ms
2556	228:learn:	0.0517318	total:	174msremaining:	585ms
2557	229:learn:	0.0512805	total:	175msremaining:	584ms
2558	230:learn:	0.0509757	total:	175msremaining:	584ms
2559	231:learn:	0.0507227	total:	176msremaining:	583ms
2560	232:learn:	0.0502876	total:	177msremaining:	582ms
2561	233:learn:	0.0500698	total:	177msremaining:	581ms
2562	234:learn:	0.0497691	total:	178msremaining:	580ms
2563	235:learn:	0.0494193	total:	179msremaining:	579ms
2564	236:learn:	0.0490472	total:	180msremaining:	578ms
2565	237:learn:	0.0487117	total:	180msremaining:	577ms
2566	238:learn:	0.0483581	total:	181msremaining:	577ms
2567	239:learn:	0.0478849	total:	182msremaining:	576ms
2568	240:learn:	0.0475424	total:	183msremaining:	575ms
2569	241:learn:	0.0472289	total:	183msremaining:	574ms
2570	242:learn:	0.0468678	total:	184msremaining:	573ms
2571	243:learn:	0.0465335	total:	185msremaining:	572ms
2572	244:learn:	0.0462223	total:	185msremaining:	571ms
2573	245:learn:	0.0459714	total:	186msremaining:	571ms
2574	246:learn:	0.0457347	total:	187msremaining:	570ms
2575	247:learn:	0.0454532	total:	188msremaining:	569ms
2576	248:learn:	0.0451492	total:	189msremaining:	569ms
2577	249:learn:	0.0448594	total:	189msremaining:	568ms
2578	250:learn:	0.0446654	total:	190msremaining:	567ms
2579	251:learn:	0.0443431	total:	191msremaining:	566ms
2580	252:learn:	0.0440867	total:	191msremaining:	565ms
2581	253:learn:	0.0438263	total:	192msremaining:	564ms
2582	254:learn:	0.0435606	total:	193msremaining:	564ms
2583	255:learn:	0.0433817	total:	194msremaining:	563ms
2584	256:learn:	0.0430971	total:	194msremaining:	562ms
2585	257:learn:	0.0427661	total:	195msremaining:	561ms
2586	258:learn:	0.0425560	total:	196msremaining:	561ms
2587	259:learn:	0.0421974	total:	197msremaining:	560ms
2588	260:learn:	0.0419323	total:	198msremaining:	560ms
2589	261:learn:	0.0417224	total:	198msremaining:	559ms
2590	262:learn:	0.0413838	total:	199msremaining:	558ms
2591	263:learn:	0.0411892	total:	200msremaining:	558ms
2592	264:learn:	0.0409001	total:	201msremaining:	557ms
2593	265:learn:	0.0406911	total:	202msremaining:	557ms
2594	266:learn:	0.0403444	total:	203msremaining:	557ms
2595	267:learn:	0.0400612	total:	204msremaining:	556ms
2596	268:learn:	0.0398160	total:	204msremaining:	555ms
2597	269:learn:	0.0396520	total:	205msremaining:	554ms
2598	270:learn:	0.0393941	total:	206msremaining:	554ms
2599	271:learn:	0.0392004	total:	207msremaining:	553ms
2600	272:learn:	0.0389407	total:	207msremaining:	552ms
2601	273:learn:	0.0387552	total:	208msremaining:	552ms
2602	274:learn:	0.0385413	total:	209msremaining:	551ms
2603	275:learn:	0.0382692	total:	210msremaining:	550ms
2604	276:learn:	0.0380790	total:	210msremaining:	549ms
2605	277:learn:	0.0378675	total:	211msremaining:	548ms
2606	278:learn:	0.0376579	total:	212msremaining:	547ms
2607	279:learn:	0.0374731	total:	212msremaining:	546ms
2608	280:learn:	0.0372509	total:	213msremaining:	546ms
2609	281:learn:	0.0370797	total:	214msremaining:	545ms
2610	282:learn:	0.0368284	total:	215msremaining:	545ms
2611	283:learn:	0.0364804	total:	216msremaining:	544ms
2612	284:learn:	0.0363092	total:	217msremaining:	544ms
2613	285:learn:	0.0360845	total:	217msremaining:	543ms
2614	286:learn:	0.0358767	total:	218msremaining:	542ms
2615	287:learn:	0.0356726	total:	219msremaining:	542ms
2616	288:learn:	0.0353108	total:	220msremaining:	542ms
2617	289:learn:	0.0351310	total:	221msremaining:	541ms
2618	290:learn:	0.0349372	total:	222msremaining:	540ms
2619	291:learn:	0.0346993	total:	222msremaining:	539ms

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2620	292:learn:	0.0345374	total:	223msremaining:	538ms
2621	293:learn:	0.0343112	total:	224msremaining:	538ms
2622	294:learn:	0.0341208	total:	225msremaining:	537ms
2623	295:learn:	0.0338839	total:	225msremaining:	536ms
2624	296:learn:	0.0336805	total:	226msremaining:	536ms
2625	297:learn:	0.0334407	total:	227msremaining:	535ms
2626	298:learn:	0.0332186	total:	228msremaining:	534ms
2627	299:learn:	0.0330106	total:	229msremaining:	534ms
2628	300:learn:	0.0328426	total:	229msremaining:	533ms
2629	301:learn:	0.0325921	total:	230msremaining:	532ms
2630	302:learn:	0.0324237	total:	231msremaining:	531ms
2631	303:learn:	0.0322661	total:	232msremaining:	531ms
2632	304:learn:	0.0320834	total:	233msremaining:	530ms
2633	305:learn:	0.0319410	total:	234msremaining:	530ms
2634	306:learn:	0.0317753	total:	234msremaining:	529ms
2635	307:learn:	0.0316154	total:	235msremaining:	528ms
2636	308:learn:	0.0313913	total:	236msremaining:	527ms
2637	309:learn:	0.0312124	total:	237msremaining:	527ms
2638	310:learn:	0.0310268	total:	237msremaining:	526ms
2639	311:learn:	0.0308502	total:	238msremaining:	525ms
2640	312:learn:	0.0307120	total:	239msremaining:	524ms
2641	313:learn:	0.0305645	total:	239msremaining:	523ms
2642	314:learn:	0.0304400	total:	240msremaining:	523ms
2643	315:learn:	0.0302571	total:	241msremaining:	522ms
2644	316:learn:	0.0301255	total:	242msremaining:	521ms
2645	317:learn:	0.0299464	total:	243msremaining:	520ms
2646	318:learn:	0.0298289	total:	243msremaining:	520ms
2647	319:learn:	0.0296629	total:	244msremaining:	519ms
2648	320:learn:	0.0294764	total:	245msremaining:	519ms
2649	321:learn:	0.0293328	total:	246msremaining:	518ms
2650	322:learn:	0.0290605	total:	247msremaining:	517ms
2651	323:learn:	0.0289027	total:	247msremaining:	516ms
2652	324:learn:	0.0287421	total:	248msremaining:	516ms
2653	325:learn:	0.0285787	total:	250msremaining:	516ms
2654	326:learn:	0.0284235	total:	251msremaining:	516ms
2655	327:learn:	0.0282791	total:	251msremaining:	515ms
2656	328:learn:	0.0281352	total:	252msremaining:	514ms
2657	329:learn:	0.0280339	total:	253msremaining:	513ms
2658	330:learn:	0.0278830	total:	253msremaining:	512ms
2659	331:learn:	0.0277338	total:	254msremaining:	511ms
2660	332:learn:	0.0276123	total:	255msremaining:	510ms
2661	333:learn:	0.0274389	total:	255msremaining:	509ms
2662	334:learn:	0.0272990	total:	256msremaining:	509ms
2663	335:learn:	0.0271223	total:	257msremaining:	508ms
2664	336:learn:	0.0270131	total:	258msremaining:	507ms
2665	337:learn:	0.0268518	total:	258msremaining:	506ms
2666	338:learn:	0.0267600	total:	259msremaining:	505ms
2667	339:learn:	0.0266209	total:	260msremaining:	504ms
2668	340:learn:	0.0265183	total:	261msremaining:	504ms
2669	341:learn:	0.0263553	total:	261msremaining:	503ms
2670	342:learn:	0.0261898	total:	262msremaining:	502ms
2671	343:learn:	0.0260269	total:	263msremaining:	502ms
2672	344:learn:	0.0258890	total:	264msremaining:	501ms
2673	345:learn:	0.0257402	total:	265msremaining:	500ms
2674	346:learn:	0.0255714	total:	265msremaining:	499ms
2675	347:learn:	0.0254710	total:	266msremaining:	499ms
2676	348:learn:	0.0253676	total:	267msremaining:	498ms
2677	349:learn:	0.0252449	total:	268msremaining:	497ms
2678	350:learn:	0.0251213	total:	269msremaining:	497ms
2679	351:learn:	0.0250155	total:	269msremaining:	496ms
2680	352:learn:	0.0248813	total:	270msremaining:	495ms
2681	353:learn:	0.0247747	total:	271msremaining:	495ms
2682	354:learn:	0.0246302	total:	272msremaining:	494ms
2683	355:learn:	0.0244905	total:	273msremaining:	493ms
2684	356:learn:	0.0243999	total:	273msremaining:	492ms
2685	357:learn:	0.0242993	total:	274msremaining:	492ms
2686	358:learn:	0.0241780	total:	275msremaining:	491ms
2687	359:learn:	0.0240578	total:	276msremaining:	490ms
2688	360:learn:	0.0239368	total:	276msremaining:	489ms
2689	361:learn:	0.0238065	total:	277msremaining:	489ms
2690	362:learn:	0.0236993	total:	278msremaining:	488ms

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2691	363:learn:	0.0235905	total:	279msremaining:	487ms
2692	364:learn:	0.0234612	total:	280msremaining:	487ms
2693	365:learn:	0.0233751	total:	280msremaining:	486ms
2694	366:learn:	0.0232429	total:	281msremaining:	485ms
2695	367:learn:	0.0231501	total:	282msremaining:	484ms
2696	368:learn:	0.0230597	total:	283msremaining:	484ms
2697	369:learn:	0.0229532	total:	284msremaining:	483ms
2698	370:learn:	0.0227883	total:	284msremaining:	482ms
2699	371:learn:	0.0226596	total:	285msremaining:	481ms
2700	372:learn:	0.0225846	total:	286msremaining:	481ms
2701	373:learn:	0.0224836	total:	287msremaining:	480ms
2702	374:learn:	0.0223951	total:	288msremaining:	479ms
2703	375:learn:	0.0222982	total:	289msremaining:	479ms
2704	376:learn:	0.0221830	total:	289msremaining:	478ms
2705	377:learn:	0.0220670	total:	290msremaining:	478ms
2706	378:learn:	0.0219504	total:	291msremaining:	477ms
2707	379:learn:	0.0218605	total:	292msremaining:	476ms
2708	380:learn:	0.0217604	total:	293msremaining:	475ms
2709	381:learn:	0.0216309	total:	293msremaining:	475ms
2710	382:learn:	0.0215235	total:	294msremaining:	474ms
2711	383:learn:	0.0213859	total:	295msremaining:	473ms
2712	384:learn:	0.0213173	total:	296msremaining:	472ms
2713	385:learn:	0.0211940	total:	296msremaining:	472ms
2714	386:learn:	0.0211011	total:	297msremaining:	471ms
2715	387:learn:	0.0210208	total:	298msremaining:	470ms
2716	388:learn:	0.0209096	total:	299msremaining:	469ms
2717	389:learn:	0.0207982	total:	299msremaining:	468ms
2718	390:learn:	0.0207210	total:	300msremaining:	468ms
2719	391:learn:	0.0206060	total:	301msremaining:	467ms
2720	392:learn:	0.0205157	total:	302msremaining:	466ms
2721	393:learn:	0.0204490	total:	302msremaining:	465ms
2722	394:learn:	0.0203556	total:	303msremaining:	465ms
2723	395:learn:	0.0202623	total:	304msremaining:	464ms
2724	396:learn:	0.0201981	total:	305msremaining:	463ms
2725	397:learn:	0.0200992	total:	306msremaining:	462ms
2726	398:learn:	0.0200310	total:	306msremaining:	462ms
2727	399:learn:	0.0199458	total:	307msremaining:	461ms
2728	400:learn:	0.0198723	total:	308msremaining:	460ms
2729	401:learn:	0.0197815	total:	309msremaining:	459ms
2730	402:learn:	0.0197004	total:	309msremaining:	458ms
2731	403:learn:	0.0196170	total:	310msremaining:	457ms
2732	404:learn:	0.0195013	total:	311msremaining:	457ms
2733	405:learn:	0.0194316	total:	312msremaining:	456ms
2734	406:learn:	0.0193371	total:	313msremaining:	455ms
2735	407:learn:	0.0192757	total:	313msremaining:	455ms
2736	408:learn:	0.0191977	total:	314msremaining:	454ms
2737	409:learn:	0.0191092	total:	315msremaining:	453ms
2738	410:learn:	0.0190198	total:	315msremaining:	452ms
2739	411:learn:	0.0189506	total:	316msremaining:	451ms
2740	412:learn:	0.0188540	total:	317msremaining:	450ms
2741	413:learn:	0.0187888	total:	318msremaining:	450ms
2742	414:learn:	0.0186874	total:	319msremaining:	449ms
2743	415:learn:	0.0185679	total:	319msremaining:	448ms
2744	416:learn:	0.0184834	total:	320msremaining:	447ms
2745	417:learn:	0.0184195	total:	321msremaining:	447ms
2746	418:learn:	0.0183422	total:	322msremaining:	446ms
2747	419:learn:	0.0182531	total:	322msremaining:	445ms
2748	420:learn:	0.0181592	total:	323msremaining:	444ms
2749	421:learn:	0.0180721	total:	324msremaining:	444ms
2750	422:learn:	0.0180176	total:	325msremaining:	443ms
2751	423:learn:	0.0179432	total:	325msremaining:	442ms
2752	424:learn:	0.0178561	total:	326msremaining:	441ms
2753	425:learn:	0.0177978	total:	327msremaining:	440ms
2754	426:learn:	0.0177060	total:	327msremaining:	439ms
2755	427:learn:	0.0176564	total:	328msremaining:	439ms
2756	428:learn:	0.0175823	total:	329msremaining:	438ms
2757	429:learn:	0.0175014	total:	330msremaining:	437ms
2758	430:learn:	0.0174423	total:	330msremaining:	436ms
2759	431:learn:	0.0173771	total:	331msremaining:	436ms
2760	432:learn:	0.0173056	total:	332msremaining:	435ms
2761	433:learn:	0.0172112	total:	333msremaining:	434ms

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2762	434:learn:	0.0171413	total:	333msremaining:	433ms
2763	435:learn:	0.0170759	total:	334msremaining:	432ms
2764	436:learn:	0.0170208	total:	335msremaining:	431ms
2765	437:learn:	0.0169554	total:	336msremaining:	431ms
2766	438:learn:	0.0169118	total:	336msremaining:	430ms
2767	439:learn:	0.0168178	total:	337msremaining:	429ms
2768	440:learn:	0.0167487	total:	338msremaining:	428ms
2769	441:learn:	0.0166884	total:	339msremaining:	427ms
2770	442:learn:	0.0166081	total:	339msremaining:	427ms
2771	443:learn:	0.0165588	total:	340msremaining:	426ms
2772	444:learn:	0.0165019	total:	341msremaining:	425ms
2773	445:learn:	0.0164506	total:	342msremaining:	424ms
2774	446:learn:	0.0163552	total:	342msremaining:	424ms
2775	447:learn:	0.0163060	total:	343msremaining:	423ms
2776	448:learn:	0.0162480	total:	344msremaining:	422ms
2777	449:learn:	0.0161725	total:	345msremaining:	421ms
2778	450:learn:	0.0161210	total:	345msremaining:	420ms
2779	451:learn:	0.0160703	total:	346msremaining:	420ms
2780	452:learn:	0.0160125	total:	347msremaining:	419ms
2781	453:learn:	0.0159508	total:	348msremaining:	418ms
2782	454:learn:	0.0159079	total:	349msremaining:	418ms
2783	455:learn:	0.0158545	total:	350msremaining:	417ms
2784	456:learn:	0.0157689	total:	350msremaining:	416ms
2785	457:learn:	0.0157306	total:	351msremaining:	416ms
2786	458:learn:	0.0156715	total:	352msremaining:	415ms
2787	459:learn:	0.0155947	total:	353msremaining:	414ms
2788	460:learn:	0.0155434	total:	354msremaining:	413ms
2789	461:learn:	0.0154831	total:	354msremaining:	413ms
2790	462:learn:	0.0154073	total:	355msremaining:	412ms
2791	463:learn:	0.0153654	total:	356msremaining:	411ms
2792	464:learn:	0.0153040	total:	357msremaining:	411ms
2793	465:learn:	0.0152508	total:	358msremaining:	410ms
2794	466:learn:	0.0152081	total:	358msremaining:	409ms
2795	467:learn:	0.0151589	total:	359msremaining:	408ms
2796	468:learn:	0.0151046	total:	360msremaining:	408ms
2797	469:learn:	0.0150656	total:	361msremaining:	407ms
2798	470:learn:	0.0149989	total:	362msremaining:	406ms
2799	471:learn:	0.0149528	total:	363msremaining:	406ms
2800	472:learn:	0.0149128	total:	364msremaining:	405ms
2801	473:learn:	0.0148771	total:	364msremaining:	404ms
2802	474:learn:	0.0148233	total:	365msremaining:	404ms
2803	475:learn:	0.0147860	total:	366msremaining:	403ms
2804	476:learn:	0.0147324	total:	367msremaining:	403ms
2805	477:learn:	0.0146947	total:	368msremaining:	402ms
2806	478:learn:	0.0146492	total:	369msremaining:	401ms
2807	479:learn:	0.0146116	total:	370msremaining:	401ms
2808	480:learn:	0.0145768	total:	371msremaining:	400ms
2809	481:learn:	0.0145427	total:	371msremaining:	399ms
2810	482:learn:	0.0144936	total:	372msremaining:	399ms
2811	483:learn:	0.0144062	total:	373msremaining:	398ms
2812	484:learn:	0.0143513	total:	374msremaining:	397ms
2813	485:learn:	0.0142874	total:	375msremaining:	397ms
2814	486:learn:	0.0142205	total:	376msremaining:	396ms
2815	487:learn:	0.0141697	total:	377msremaining:	396ms
2816	488:learn:	0.0141038	total:	378msremaining:	395ms
2817	489:learn:	0.0140604	total:	379msremaining:	395ms
2818	490:learn:	0.0140054	total:	380msremaining:	394ms
2819	491:learn:	0.0139518	total:	381msremaining:	393ms
2820	492:learn:	0.0138794	total:	382msremaining:	392ms
2821	493:learn:	0.0138288	total:	382msremaining:	392ms
2822	494:learn:	0.0137792	total:	383msremaining:	391ms
2823	495:learn:	0.0137370	total:	384msremaining:	390ms
2824	496:learn:	0.0136900	total:	385msremaining:	390ms
2825	497:learn:	0.0136174	total:	386msremaining:	389ms
2826	498:learn:	0.0135743	total:	387msremaining:	388ms
2827	499:learn:	0.0135357	total:	387msremaining:	387ms
2828	500:learn:	0.0134854	total:	388msremaining:	387ms
2829	501:learn:	0.0134290	total:	389msremaining:	386ms
2830	502:learn:	0.0133887	total:	390msremaining:	385ms
2831	503:learn:	0.0133327	total:	391msremaining:	385ms
2832	504:learn:	0.0132848	total:	392msremaining:	384ms

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2833	505:learn:	0.0132325	total:	393msremaining:	383ms
2834	506:learn:	0.0131985	total:	393msremaining:	383ms
2835	507:learn:	0.0131647	total:	394msremaining:	382ms
2836	508:learn:	0.0131105	total:	395msremaining:	381ms
2837	509:learn:	0.0130531	total:	396msremaining:	380ms
2838	510:learn:	0.0130157	total:	397msremaining:	380ms
2839	511:learn:	0.0129862	total:	397msremaining:	379ms
2840	512:learn:	0.0129550	total:	398msremaining:	378ms
2841	513:learn:	0.0128940	total:	399msremaining:	377ms
2842	514:learn:	0.0128411	total:	400msremaining:	377ms
2843	515:learn:	0.0127906	total:	401msremaining:	376ms
2844	516:learn:	0.0127485	total:	402msremaining:	375ms
2845	517:learn:	0.0127086	total:	402msremaining:	374ms
2846	518:learn:	0.0126792	total:	403msremaining:	373ms
2847	519:learn:	0.0126397	total:	404msremaining:	373ms
2848	520:learn:	0.0125772	total:	405msremaining:	372ms
2849	521:learn:	0.0125524	total:	405msremaining:	371ms
2850	522:learn:	0.0125129	total:	406msremaining:	370ms
2851	523:learn:	0.0124624	total:	407msremaining:	370ms
2852	524:learn:	0.0124209	total:	408msremaining:	369ms
2853	525:learn:	0.0123809	total:	409msremaining:	368ms
2854	526:learn:	0.0123408	total:	410msremaining:	368ms
2855	527:learn:	0.0123081	total:	410msremaining:	367ms
2856	528:learn:	0.0122535	total:	411msremaining:	366ms
2857	529:learn:	0.0122166	total:	412msremaining:	365ms
2858	530:learn:	0.0121868	total:	413msremaining:	364ms
2859	531:learn:	0.0121522	total:	413msremaining:	364ms
2860	532:learn:	0.0121154	total:	414msremaining:	363ms
2861	533:learn:	0.0120512	total:	415msremaining:	362ms
2862	534:learn:	0.0120178	total:	416msremaining:	361ms
2863	535:learn:	0.0119901	total:	417msremaining:	361ms
2864	536:learn:	0.0119606	total:	418msremaining:	360ms
2865	537:learn:	0.0119243	total:	418msremaining:	359ms
2866	538:learn:	0.0118893	total:	419msremaining:	359ms
2867	539:learn:	0.0118572	total:	420msremaining:	358ms
2868	540:learn:	0.0118281	total:	421msremaining:	357ms
2869	541:learn:	0.0117886	total:	422msremaining:	356ms
2870	542:learn:	0.0117450	total:	423msremaining:	356ms
2871	543:learn:	0.0117221	total:	424msremaining:	355ms
2872	544:learn:	0.0116905	total:	425msremaining:	355ms
2873	545:learn:	0.0116560	total:	426msremaining:	354ms
2874	546:learn:	0.0116183	total:	426msremaining:	353ms
2875	547:learn:	0.0115675	total:	427msremaining:	352ms
2876	548:learn:	0.0115372	total:	428msremaining:	351ms
2877	549:learn:	0.0115000	total:	429msremaining:	351ms
2878	550:learn:	0.0114408	total:	430msremaining:	350ms
2879	551:learn:	0.0114101	total:	430msremaining:	349ms
2880	552:learn:	0.0113848	total:	431msremaining:	349ms
2881	553:learn:	0.0113607	total:	432msremaining:	348ms
2882	554:learn:	0.0113210	total:	433msremaining:	347ms
2883	555:learn:	0.0112874	total:	433msremaining:	346ms
2884	556:learn:	0.0112460	total:	434msremaining:	345ms
2885	557:learn:	0.0112178	total:	435msremaining:	345ms
2886	558:learn:	0.0111795	total:	436msremaining:	344ms
2887	559:learn:	0.0111383	total:	437msremaining:	343ms
2888	560:learn:	0.0110976	total:	438msremaining:	342ms
2889	561:learn:	0.0110737	total:	439msremaining:	342ms
2890	562:learn:	0.0110465	total:	440msremaining:	341ms
2891	563:learn:	0.0110155	total:	441msremaining:	341ms
2892	564:learn:	0.0109827	total:	441msremaining:	340ms
2893	565:learn:	0.0109558	total:	442msremaining:	339ms
2894	566:learn:	0.0109271	total:	443msremaining:	338ms
2895	567:learn:	0.0108833	total:	444msremaining:	338ms
2896	568:learn:	0.0108584	total:	445msremaining:	337ms
2897	569:learn:	0.0108112	total:	446msremaining:	336ms
2898	570:learn:	0.0107749	total:	446msremaining:	335ms
2899	571:learn:	0.0107450	total:	447msremaining:	335ms
2900	572:learn:	0.0107141	total:	448msremaining:	334ms
2901	573:learn:	0.0106905	total:	449msremaining:	333ms
2902	574:learn:	0.0106514	total:	450msremaining:	332ms
2903	575:learn:	0.0106225	total:	450msremaining:	331ms

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2904	576:learn:	0.0105886	total:	451msremaining:	331ms
2905	577:learn:	0.0105633	total:	452msremaining:	330ms
2906	578:learn:	0.0105381	total:	453msremaining:	329ms
2907	579:learn:	0.0105013	total:	453msremaining:	328ms
2908	580:learn:	0.0104651	total:	454msremaining:	328ms
2909	581:learn:	0.0104349	total:	455msremaining:	327ms
2910	582:learn:	0.0104106	total:	456msremaining:	326ms
2911	583:learn:	0.0103788	total:	457msremaining:	325ms
2912	584:learn:	0.0103535	total:	457msremaining:	325ms
2913	585:learn:	0.0103279	total:	458msremaining:	324ms
2914	586:learn:	0.0102927	total:	459msremaining:	323ms
2915	587:learn:	0.0102736	total:	460msremaining:	322ms
2916	588:learn:	0.0102457	total:	460msremaining:	321ms
2917	589:learn:	0.0102188	total:	461msremaining:	321ms
2918	590:learn:	0.0101829	total:	462msremaining:	320ms
2919	591:learn:	0.0101452	total:	463msremaining:	319ms
2920	592:learn:	0.0101198	total:	464msremaining:	318ms
2921	593:learn:	0.0101003	total:	465msremaining:	318ms
2922	594:learn:	0.0100771	total:	466msremaining:	317ms
2923	595:learn:	0.0100533	total:	467msremaining:	316ms
2924	596:learn:	0.0100226	total:	467msremaining:	316ms
2925	597:learn:	0.0100037	total:	468msremaining:	315ms
2926	598:learn:	0.0099798	total:	469msremaining:	314ms
2927	599:learn:	0.0099583	total:	470msremaining:	313ms
2928	600:learn:	0.0099324	total:	470msremaining:	312ms
2929	601:learn:	0.0099011	total:	471msremaining:	312ms
2930	602:learn:	0.0098593	total:	472msremaining:	311ms
2931	603:learn:	0.0098376	total:	473msremaining:	310ms
2932	604:learn:	0.0097909	total:	473msremaining:	309ms
2933	605:learn:	0.0097612	total:	474msremaining:	308ms
2934	606:learn:	0.0097340	total:	475msremaining:	308ms
2935	607:learn:	0.0097010	total:	476msremaining:	307ms
2936	608:learn:	0.0096731	total:	476msremaining:	306ms
2937	609:learn:	0.0096423	total:	477msremaining:	305ms
2938	610:learn:	0.0096109	total:	478msremaining:	304ms
2939	611:learn:	0.0095859	total:	479msremaining:	303ms
2940	612:learn:	0.0095589	total:	479msremaining:	303ms
2941	613:learn:	0.0095382	total:	480msremaining:	302ms
2942	614:learn:	0.0095124	total:	481msremaining:	301ms
2943	615:learn:	0.0094941	total:	482msremaining:	300ms
2944	616:learn:	0.0094766	total:	482msremaining:	299ms
2945	617:learn:	0.0094568	total:	483msremaining:	299ms
2946	618:learn:	0.0094355	total:	484msremaining:	298ms
2947	619:learn:	0.0094059	total:	485msremaining:	297ms
2948	620:learn:	0.0093896	total:	486msremaining:	296ms
2949	621:learn:	0.0093700	total:	486msremaining:	296ms
2950	622:learn:	0.0093539	total:	487msremaining:	295ms
2951	623:learn:	0.0093064	total:	488msremaining:	294ms
2952	624:learn:	0.0092815	total:	489msremaining:	293ms
2953	625:learn:	0.0092520	total:	489msremaining:	292ms
2954	626:learn:	0.0092224	total:	490msremaining:	292ms
2955	627:learn:	0.0091937	total:	491msremaining:	291ms
2956	628:learn:	0.0091665	total:	492msremaining:	290ms
2957	629:learn:	0.0091415	total:	492msremaining:	289ms
2958	630:learn:	0.0091130	total:	493msremaining:	288ms
2959	631:learn:	0.0090950	total:	494msremaining:	288ms
2960	632:learn:	0.0090720	total:	495msremaining:	287ms
2961	633:learn:	0.0090547	total:	495msremaining:	286ms
2962	634:learn:	0.0090377	total:	496msremaining:	285ms
2963	635:learn:	0.0090098	total:	497msremaining:	284ms
2964	636:learn:	0.0089940	total:	498msremaining:	284ms
2965	637:learn:	0.0089688	total:	498msremaining:	283ms
2966	638:learn:	0.0089392	total:	499msremaining:	282ms
2967	639:learn:	0.0089233	total:	500msremaining:	281ms
2968	640:learn:	0.0089075	total:	500msremaining:	280ms
2969	641:learn:	0.0088852	total:	501msremaining:	280ms
2970	642:learn:	0.0088617	total:	502msremaining:	279ms
2971	643:learn:	0.0088441	total:	503msremaining:	278ms
2972	644:learn:	0.0088270	total:	504msremaining:	277ms
2973	645:learn:	0.0088023	total:	505msremaining:	276ms
2974	646:learn:	0.0087809	total:	505msremaining:	276ms

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2975	647:learn:	0.0087411	total:	506msremaining:	275ms
2976	648:learn:	0.0087259	total:	507msremaining:	274ms
2977	649:learn:	0.0087008	total:	508msremaining:	273ms
2978	650:learn:	0.0086719	total:	508msremaining:	273ms
2979	651:learn:	0.0086418	total:	509msremaining:	272ms
2980	652:learn:	0.0086158	total:	510msremaining:	271ms
2981	653:learn:	0.0085972	total:	510msremaining:	270ms
2982	654:learn:	0.0085814	total:	511msremaining:	269ms
2983	655:learn:	0.0085630	total:	512msremaining:	269ms
2984	656:learn:	0.0085348	total:	513msremaining:	268ms
2985	657:learn:	0.0085069	total:	514msremaining:	267ms
2986	658:learn:	0.0084837	total:	514msremaining:	266ms
2987	659:learn:	0.0084683	total:	515msremaining:	265ms
2988	660:learn:	0.0084462	total:	516msremaining:	264ms
2989	661:learn:	0.0084282	total:	516msremaining:	264ms
2990	662:learn:	0.0084014	total:	517msremaining:	263ms
2991	663:learn:	0.0083777	total:	518msremaining:	262ms
2992	664:learn:	0.0083570	total:	519msremaining:	261ms
2993	665:learn:	0.0083391	total:	520msremaining:	261ms
2994	666:learn:	0.0083230	total:	520msremaining:	260ms
2995	667:learn:	0.0083075	total:	521msremaining:	259ms
2996	668:learn:	0.0082893	total:	522msremaining:	258ms
2997	669:learn:	0.0082654	total:	523msremaining:	257ms
2998	670:learn:	0.0082478	total:	523msremaining:	257ms
2999	671:learn:	0.0082338	total:	524msremaining:	256ms
3000	672:learn:	0.0082141	total:	525msremaining:	255ms
3001	673:learn:	0.0081983	total:	526msremaining:	254ms
3002	674:learn:	0.0081785	total:	526msremaining:	253ms
3003	675:learn:	0.0081626	total:	527msremaining:	253ms
3004	676:learn:	0.0081483	total:	528msremaining:	252ms
3005	677:learn:	0.0081304	total:	529msremaining:	251ms
3006	678:learn:	0.0081177	total:	529msremaining:	250ms
3007	679:learn:	0.0080852	total:	530msremaining:	249ms
3008	680:learn:	0.0080582	total:	531msremaining:	249ms
3009	681:learn:	0.0080246	total:	532msremaining:	248ms
3010	682:learn:	0.0080097	total:	532msremaining:	247ms
3011	683:learn:	0.0079896	total:	533msremaining:	246ms
3012	684:learn:	0.0079719	total:	534msremaining:	246ms
3013	685:learn:	0.0079561	total:	535msremaining:	245ms
3014	686:learn:	0.0079381	total:	535msremaining:	244ms
3015	687:learn:	0.0079135	total:	536msremaining:	243ms
3016	688:learn:	0.0078986	total:	537msremaining:	242ms
3017	689:learn:	0.0078839	total:	538msremaining:	242ms
3018	690:learn:	0.0078677	total:	539msremaining:	241ms
3019	691:learn:	0.0078506	total:	539msremaining:	240ms
3020	692:learn:	0.0078346	total:	540msremaining:	239ms
3021	693:learn:	0.0078185	total:	541msremaining:	238ms
3022	694:learn:	0.0078038	total:	542msremaining:	238ms
3023	695:learn:	0.0077884	total:	542msremaining:	237ms
3024	696:learn:	0.0077745	total:	543msremaining:	236ms
3025	697:learn:	0.0077489	total:	544msremaining:	235ms
3026	698:learn:	0.0077269	total:	545msremaining:	235ms
3027	699:learn:	0.0077108	total:	545msremaining:	234ms
3028	700:learn:	0.0076962	total:	546msremaining:	233ms
3029	701:learn:	0.0076737	total:	547msremaining:	232ms
3030	702:learn:	0.0076458	total:	548msremaining:	231ms
3031	703:learn:	0.0076367	total:	548msremaining:	231ms
3032	704:learn:	0.0076187	total:	549msremaining:	230ms
3033	705:learn:	0.0076064	total:	550msremaining:	229ms
3034	706:learn:	0.0075860	total:	551msremaining:	228ms
3035	707:learn:	0.0075709	total:	552msremaining:	227ms
3036	708:learn:	0.0075558	total:	552msremaining:	227ms
3037	709:learn:	0.0075382	total:	553msremaining:	226ms
3038	710:learn:	0.0075252	total:	554msremaining:	225ms
3039	711:learn:	0.0075097	total:	554msremaining:	224ms
3040	712:learn:	0.0074962	total:	555msremaining:	223ms
3041	713:learn:	0.0074747	total:	556msremaining:	223ms
3042	714:learn:	0.0074547	total:	557msremaining:	222ms
3043	715:learn:	0.0074393	total:	558msremaining:	221ms
3044	716:learn:	0.0074272	total:	558msremaining:	220ms
3045	717:learn:	0.0074105	total:	559msremaining:	220ms

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3046	718:learn:	0.0074005	total:	560msremaining:	219ms
3047	719:learn:	0.0073874	total:	560msremaining:	218ms
3048	720:learn:	0.0073709	total:	561msremaining:	217ms
3049	721:learn:	0.0073586	total:	562msremaining:	216ms
3050	722:learn:	0.0073408	total:	563msremaining:	216ms
3051	723:learn:	0.0073278	total:	564msremaining:	215ms
3052	724:learn:	0.0073023	total:	564msremaining:	214ms
3053	725:learn:	0.0072844	total:	565msremaining:	213ms
3054	726:learn:	0.0072741	total:	566msremaining:	212ms
3055	727:learn:	0.0072444	total:	566msremaining:	212ms
3056	728:learn:	0.0072247	total:	567msremaining:	211ms
3057	729:learn:	0.0072136	total:	568msremaining:	210ms
3058	730:learn:	0.0072023	total:	569msremaining:	209ms
3059	731:learn:	0.0071852	total:	569msremaining:	208ms
3060	732:learn:	0.0071684	total:	570msremaining:	208ms
3061	733:learn:	0.0071590	total:	571msremaining:	207ms
3062	734:learn:	0.0071489	total:	572msremaining:	206ms
3063	735:learn:	0.0071363	total:	572msremaining:	205ms
3064	736:learn:	0.0071243	total:	573msremaining:	205ms
3065	737:learn:	0.0071078	total:	574msremaining:	204ms
3066	738:learn:	0.0070879	total:	575msremaining:	203ms
3067	739:learn:	0.0070761	total:	575msremaining:	202ms
3068	740:learn:	0.0070651	total:	576msremaining:	201ms
3069	741:learn:	0.0070455	total:	577msremaining:	201ms
3070	742:learn:	0.0070311	total:	578msremaining:	200ms
3071	743:learn:	0.0070176	total:	579msremaining:	199ms
3072	744:learn:	0.0070035	total:	579msremaining:	198ms
3073	745:learn:	0.0069934	total:	580msremaining:	197ms
3074	746:learn:	0.0069774	total:	581msremaining:	197ms
3075	747:learn:	0.0069657	total:	581msremaining:	196ms
3076	748:learn:	0.0069536	total:	582msremaining:	195ms
3077	749:learn:	0.0069367	total:	583msremaining:	194ms
3078	750:learn:	0.0069229	total:	584msremaining:	194ms
3079	751:learn:	0.0069091	total:	585msremaining:	193ms
3080	752:learn:	0.0068967	total:	585msremaining:	192ms
3081	753:learn:	0.0068819	total:	586msremaining:	191ms
3082	754:learn:	0.0068662	total:	587msremaining:	190ms
3083	755:learn:	0.0068489	total:	588msremaining:	190ms
3084	756:learn:	0.0068306	total:	588msremaining:	189ms
3085	757:learn:	0.0068082	total:	589msremaining:	188ms
3086	758:learn:	0.0067957	total:	590msremaining:	187ms
3087	759:learn:	0.0067790	total:	591msremaining:	187ms
3088	760:learn:	0.0067606	total:	591msremaining:	186ms
3089	761:learn:	0.0067504	total:	592msremaining:	185ms
3090	762:learn:	0.0067388	total:	593msremaining:	184ms
3091	763:learn:	0.0067265	total:	593msremaining:	183ms
3092	764:learn:	0.0067056	total:	594msremaining:	183ms
3093	765:learn:	0.0066980	total:	595msremaining:	182ms
3094	766:learn:	0.0066798	total:	596msremaining:	181ms
3095	767:learn:	0.0066696	total:	596msremaining:	180ms
3096	768:learn:	0.0066575	total:	597msremaining:	179ms
3097	769:learn:	0.0066495	total:	598msremaining:	179ms
3098	770:learn:	0.0066309	total:	599msremaining:	178ms
3099	771:learn:	0.0066066	total:	599msremaining:	177ms
3100	772:learn:	0.0065908	total:	600msremaining:	176ms
3101	773:learn:	0.0065791	total:	601msremaining:	176ms
3102	774:learn:	0.0065663	total:	602msremaining:	175ms
3103	775:learn:	0.0065523	total:	603msremaining:	174ms
3104	776:learn:	0.0065305	total:	604msremaining:	173ms
3105	777:learn:	0.0065212	total:	605msremaining:	172ms
3106	778:learn:	0.0064982	total:	605msremaining:	172ms
3107	779:learn:	0.0064833	total:	606msremaining:	171ms
3108	780:learn:	0.0064671	total:	607msremaining:	170ms
3109	781:learn:	0.0064540	total:	608msremaining:	169ms
3110	782:learn:	0.0064379	total:	608msremaining:	169ms
3111	783:learn:	0.0064195	total:	609msremaining:	168ms
3112	784:learn:	0.0063990	total:	610msremaining:	167ms
3113	785:learn:	0.0063874	total:	611msremaining:	166ms
3114	786:learn:	0.0063738	total:	612msremaining:	166ms
3115	787:learn:	0.0063635	total:	612msremaining:	165ms
3116	788:learn:	0.0063545	total:	613msremaining:	164ms

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3117	789:learn:	0.0063467	total:	614msremaining:	163ms
3118	790:learn:	0.0063314	total:	615msremaining:	162ms
3119	791:learn:	0.0063212	total:	616msremaining:	162ms
3120	792:learn:	0.0063108	total:	617msremaining:	161ms
3121	793:learn:	0.0062979	total:	618msremaining:	160ms
3122	794:learn:	0.0062818	total:	619msremaining:	160ms
3123	795:learn:	0.0062699	total:	620msremaining:	159ms
3124	796:learn:	0.0062618	total:	620msremaining:	158ms
3125	797:learn:	0.0062545	total:	621msremaining:	157ms
3126	798:learn:	0.0062408	total:	622msremaining:	157ms
3127	799:learn:	0.0062248	total:	623msremaining:	156ms
3128	800:learn:	0.0062153	total:	624msremaining:	155ms
3129	801:learn:	0.0062026	total:	624msremaining:	154ms
3130	802:learn:	0.0061940	total:	625msremaining:	153ms
3131	803:learn:	0.0061789	total:	626msremaining:	153ms
3132	804:learn:	0.0061664	total:	626msremaining:	152ms
3133	805:learn:	0.0061555	total:	627msremaining:	151ms
3134	806:learn:	0.0061320	total:	628msremaining:	150ms
3135	807:learn:	0.0061190	total:	629msremaining:	149ms
3136	808:learn:	0.0061107	total:	630msremaining:	149ms
3137	809:learn:	0.0061017	total:	630msremaining:	148ms
3138	810:learn:	0.0060906	total:	631msremaining:	147ms
3139	811:learn:	0.0060793	total:	632msremaining:	146ms
3140	812:learn:	0.0060648	total:	633msremaining:	146ms
3141	813:learn:	0.0060546	total:	634msremaining:	145ms
3142	814:learn:	0.0060412	total:	635msremaining:	144ms
3143	815:learn:	0.0060309	total:	636msremaining:	143ms
3144	816:learn:	0.0060210	total:	637msremaining:	143ms
3145	817:learn:	0.0060108	total:	637msremaining:	142ms
3146	818:learn:	0.0059979	total:	638msremaining:	141ms
3147	819:learn:	0.0059910	total:	639msremaining:	140ms
3148	820:learn:	0.0059777	total:	640msremaining:	140ms
3149	821:learn:	0.0059696	total:	641msremaining:	139ms
3150	822:learn:	0.0059612	total:	642msremaining:	138ms
3151	823:learn:	0.0059543	total:	642msremaining:	137ms
3152	824:learn:	0.0059456	total:	643msremaining:	136ms
3153	825:learn:	0.0059387	total:	644msremaining:	136ms
3154	826:learn:	0.0059278	total:	645msremaining:	135ms
3155	827:learn:	0.0059184	total:	646msremaining:	134ms
3156	828:learn:	0.0059106	total:	646msremaining:	133ms
3157	829:learn:	0.0059006	total:	647msremaining:	133ms
3158	830:learn:	0.0058926	total:	648msremaining:	132ms
3159	831:learn:	0.0058833	total:	649msremaining:	131ms
3160	832:learn:	0.0058717	total:	650msremaining:	130ms
3161	833:learn:	0.0058596	total:	650msremaining:	129ms
3162	834:learn:	0.0058493	total:	652msremaining:	129ms
3163	835:learn:	0.0058427	total:	652msremaining:	128ms
3164	836:learn:	0.0058337	total:	653msremaining:	127ms
3165	837:learn:	0.0058251	total:	654msremaining:	126ms
3166	838:learn:	0.0058166	total:	655msremaining:	126ms
3167	839:learn:	0.0058075	total:	656msremaining:	125ms
3168	840:learn:	0.0058004	total:	656msremaining:	124ms
3169	841:learn:	0.0057934	total:	657msremaining:	123ms
3170	842:learn:	0.0057829	total:	658msremaining:	123ms
3171	843:learn:	0.0057720	total:	659msremaining:	122ms
3172	844:learn:	0.0057626	total:	660msremaining:	121ms
3173	845:learn:	0.0057507	total:	661msremaining:	120ms
3174	846:learn:	0.0057390	total:	662msremaining:	120ms
3175	847:learn:	0.0057312	total:	663msremaining:	119ms
3176	848:learn:	0.0057151	total:	663msremaining:	118ms
3177	849:learn:	0.0057061	total:	664msremaining:	117ms
3178	850:learn:	0.0056919	total:	665msremaining:	116ms
3179	851:learn:	0.0056786	total:	666msremaining:	116ms
3180	852:learn:	0.0056719	total:	667msremaining:	115ms
3181	853:learn:	0.0056634	total:	668msremaining:	114ms
3182	854:learn:	0.0056538	total:	668msremaining:	113ms
3183	855:learn:	0.0056347	total:	669msremaining:	113ms
3184	856:learn:	0.0056249	total:	670msremaining:	112ms
3185	857:learn:	0.0056102	total:	671msremaining:	111ms
3186	858:learn:	0.0056000	total:	672msremaining:	110ms
3187	859:learn:	0.0055914	total:	673msremaining:	109ms

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3188	860:learn:	0.0055820	total:	673msremaining:	109ms
3189	861:learn:	0.0055728	total:	674msremaining:	108ms
3190	862:learn:	0.0055624	total:	675msremaining:	107ms
3191	863:learn:	0.0055495	total:	676msremaining:	106ms
3192	864:learn:	0.0055429	total:	676msremaining:	106ms
3193	865:learn:	0.0055349	total:	677msremaining:	105ms
3194	866:learn:	0.0055203	total:	678msremaining:	104ms
3195	867:learn:	0.0055145	total:	678msremaining:	103ms
3196	868:learn:	0.0055016	total:	679msremaining:	102ms
3197	869:learn:	0.0054908	total:	680msremaining:	102ms
3198	870:learn:	0.0054833	total:	681msremaining:	101ms
3199	871:learn:	0.0054719	total:	681msremaining:	100ms
3200	872:learn:	0.0054650	total:	682msremaining:	99.2ms
3201	873:learn:	0.0054547	total:	683msremaining:	98.5ms
3202	874:learn:	0.0054416	total:	684msremaining:	97.7ms
3203	875:learn:	0.0054342	total:	684msremaining:	96.9ms
3204	876:learn:	0.0054240	total:	685msremaining:	96.1ms
3205	877:learn:	0.0054140	total:	686msremaining:	95.3ms
3206	878:learn:	0.0054085	total:	687msremaining:	94.5ms
3207	879:learn:	0.0053966	total:	687msremaining:	93.7ms
3208	880:learn:	0.0053867	total:	688msremaining:	92.9ms
3209	881:learn:	0.0053756	total:	689msremaining:	92.1ms
3210	882:learn:	0.0053693	total:	690msremaining:	91.4ms
3211	883:learn:	0.0053571	total:	690msremaining:	90.6ms
3212	884:learn:	0.0053450	total:	691msremaining:	89.8ms
3213	885:learn:	0.0053395	total:	692msremaining:	89ms
3214	886:learn:	0.0053331	total:	693msremaining:	88.2ms
3215	887:learn:	0.0053266	total:	693msremaining:	87.5ms
3216	888:learn:	0.0053144	total:	694msremaining:	86.7ms
3217	889:learn:	0.0053071	total:	695msremaining:	85.9ms
3218	890:learn:	0.0053008	total:	696msremaining:	85.1ms
3219	891:learn:	0.0052929	total:	696msremaining:	84.3ms
3220	892:learn:	0.0052864	total:	697msremaining:	83.5ms
3221	893:learn:	0.0052799	total:	698msremaining:	82.7ms
3222	894:learn:	0.0052686	total:	699msremaining:	82ms
3223	895:learn:	0.0052536	total:	699msremaining:	81.2ms
3224	896:learn:	0.0052398	total:	700msremaining:	80.4ms
3225	897:learn:	0.0052334	total:	701msremaining:	79.6ms
3226	898:learn:	0.0052235	total:	702msremaining:	78.8ms
3227	899:learn:	0.0052148	total:	703msremaining:	78.1ms
3228	900:learn:	0.0052086	total:	704msremaining:	77.3ms
3229	901:learn:	0.0052001	total:	704msremaining:	76.5ms
3230	902:learn:	0.0051909	total:	705msremaining:	75.8ms
3231	903:learn:	0.0051746	total:	706msremaining:	75ms
3232	904:learn:	0.0051626	total:	707msremaining:	74.2ms
3233	905:learn:	0.0051547	total:	707msremaining:	73.4ms
3234	906:learn:	0.0051484	total:	708msremaining:	72.6ms
3235	907:learn:	0.0051417	total:	709msremaining:	71.8ms
3236	908:learn:	0.0051316	total:	710msremaining:	71ms
3237	909:learn:	0.0051232	total:	710msremaining:	70.3ms
3238	910:learn:	0.0051148	total:	711msremaining:	69.5ms
3239	911:learn:	0.0051052	total:	712msremaining:	68.7ms
3240	912:learn:	0.0050995	total:	713msremaining:	67.9ms
3241	913:learn:	0.0050922	total:	713msremaining:	67.1ms
3242	914:learn:	0.0050822	total:	714msremaining:	66.3ms
3243	915:learn:	0.0050737	total:	715msremaining:	65.5ms
3244	916:learn:	0.0050661	total:	731msremaining:	66.2ms
3245	917:learn:	0.0050604	total:	732msremaining:	65.4ms
3246	918:learn:	0.0050555	total:	733msremaining:	64.6ms
3247	919:learn:	0.0050494	total:	733msremaining:	63.8ms
3248	920:learn:	0.0050434	total:	734msremaining:	63ms
3249	921:learn:	0.0050363	total:	735msremaining:	62.2ms
3250	922:learn:	0.0050303	total:	736msremaining:	61.4ms
3251	923:learn:	0.0050188	total:	736msremaining:	60.6ms
3252	924:learn:	0.0050118	total:	737msremaining:	59.8ms
3253	925:learn:	0.0050036	total:	738msremaining:	59ms
3254	926:learn:	0.0049906	total:	739msremaining:	58.2ms
3255	927:learn:	0.0049838	total:	739msremaining:	57.4ms
3256	928:learn:	0.0049760	total:	740msremaining:	56.6ms
3257	929:learn:	0.0049675	total:	741msremaining:	55.8ms
3258	930:learn:	0.0049574	total:	742msremaining:	55ms

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3259	931:learn:	0.0049488	total:	742msremaining:	54.2ms
3260	932:learn:	0.0049368	total:	743msremaining:	53.4ms
3261	933:learn:	0.0049291	total:	744msremaining:	52.6ms
3262	934:learn:	0.0049208	total:	745msremaining:	51.8ms
3263	935:learn:	0.0049136	total:	745msremaining:	51ms
3264	936:learn:	0.0049003	total:	746msremaining:	50.2ms
3265	937:learn:	0.0048949	total:	747msremaining:	49.4ms
3266	938:learn:	0.0048880	total:	748msremaining:	48.6ms
3267	939:learn:	0.0048793	total:	748msremaining:	47.8ms
3268	940:learn:	0.0048689	total:	749msremaining:	47ms
3269	941:learn:	0.0048610	total:	750msremaining:	46.2ms
3270	942:learn:	0.0048518	total:	750msremaining:	45.4ms
3271	943:learn:	0.0048457	total:	751msremaining:	44.6ms
3272	944:learn:	0.0048365	total:	752msremaining:	43.8ms
3273	945:learn:	0.0048229	total:	753msremaining:	43ms
3274	946:learn:	0.0048157	total:	753msremaining:	42.2ms
3275	947:learn:	0.0048078	total:	754msremaining:	41.4ms
3276	948:learn:	0.0048004	total:	755msremaining:	40.6ms
3277	949:learn:	0.0047955	total:	756msremaining:	39.8ms
3278	950:learn:	0.0047887	total:	757msremaining:	39ms
3279	951:learn:	0.0047820	total:	757msremaining:	38.2ms
3280	952:learn:	0.0047729	total:	758msremaining:	37.4ms
3281	953:learn:	0.0047624	total:	759msremaining:	36.6ms
3282	954:learn:	0.0047552	total:	759msremaining:	35.8ms
3283	955:learn:	0.0047498	total:	760msremaining:	35ms
3284	956:learn:	0.0047400	total:	761msremaining:	34.2ms
3285	957:learn:	0.0047343	total:	762msremaining:	33.4ms
3286	958:learn:	0.0047291	total:	762msremaining:	32.6ms
3287	959:learn:	0.0047208	total:	763msremaining:	31.8ms
3288	960:learn:	0.0047140	total:	764msremaining:	31ms
3289	961:learn:	0.0047052	total:	765msremaining:	30.2ms
3290	962:learn:	0.0046962	total:	765msremaining:	29.4ms
3291	963:learn:	0.0046894	total:	766msremaining:	28.6ms
3292	964:learn:	0.0046847	total:	767msremaining:	27.8ms
3293	965:learn:	0.0046791	total:	768msremaining:	27ms
3294	966:learn:	0.0046726	total:	768msremaining:	26.2ms
3295	967:learn:	0.0046638	total:	769msremaining:	25.4ms
3296	968:learn:	0.0046545	total:	770msremaining:	24.6ms
3297	969:learn:	0.0046478	total:	771msremaining:	23.8ms
3298	970:learn:	0.0046416	total:	772msremaining:	23ms
3299	971:learn:	0.0046353	total:	772msremaining:	22.2ms
3300	972:learn:	0.0046296	total:	773msremaining:	21.5ms
3301	973:learn:	0.0046222	total:	774msremaining:	20.7ms
3302	974:learn:	0.0046155	total:	775msremaining:	19.9ms
3303	975:learn:	0.0046094	total:	775msremaining:	19.1ms
3304	976:learn:	0.0046020	total:	776msremaining:	18.3ms
3305	977:learn:	0.0045970	total:	777msremaining:	17.5ms
3306	978:learn:	0.0045930	total:	778msremaining:	16.7ms
3307	979:learn:	0.0045877	total:	779msremaining:	15.9ms
3308	980:learn:	0.0045778	total:	779msremaining:	15.1ms
3309	981:learn:	0.0045711	total:	780msremaining:	14.3ms
3310	982:learn:	0.0045647	total:	781msremaining:	13.5ms
3311	983:learn:	0.0045566	total:	782msremaining:	12.7ms
3312	984:learn:	0.0045478	total:	782msremaining:	11.9ms
3313	985:learn:	0.0045422	total:	783msremaining:	11.1ms
3314	986:learn:	0.0045367	total:	784msremaining:	10.3ms
3315	987:learn:	0.0045271	total:	785msremaining:	9.53ms
3316	988:learn:	0.0045207	total:	785msremaining:	8.73ms
3317	989:learn:	0.0045146	total:	786msremaining:	7.94ms
3318	990:learn:	0.0045091	total:	787msremaining:	7.15ms
3319	991:learn:	0.0045032	total:	788msremaining:	6.35ms
3320	992:learn:	0.0044983	total:	789msremaining:	5.56ms
3321	993:learn:	0.0044920	total:	789msremaining:	4.76ms
3322	994:learn:	0.0044855	total:	790msremaining:	3.97ms
3323	995:learn:	0.0044800	total:	791msremaining:	3.18ms
3324	996:learn:	0.0044748	total:	792msremaining:	2.38ms
3325	997:learn:	0.0044685	total:	792msremaining:	1.59ms
3326	998:learn:	0.0044605	total:	793msremaining:	794us
3327	999:learn:	0.0044563	total:	794msremaining:	0us
3328	current noise type: None				
3329	{ 'Samples': 3686, 'Features': 400, 'Anomalies': 61, 'Anomalies Ratio(%)': 1.65}				

demo

```
3330 Evaluating on dataset: 36_speech
3331 X_train shape: (184, 400)
3332 X_test shape: (3502, 400)
3333 Training size: 184, No. outliers: 1
3334 Epoch 1/50
3335 20/20 [=====] - 0s 6ms/step - loss: 1.5115
3336 Epoch 2/50
3337 20/20 [=====] - 0s 6ms/step - loss: 0.7484
3338 Epoch 3/50
3339 20/20 [=====] - 0s 6ms/step - loss: 0.6487
3340 Epoch 4/50
3341 20/20 [=====] - 0s 6ms/step - loss: 0.5473
3342 Epoch 5/50
3343 20/20 [=====] - 0s 6ms/step - loss: 0.4602
3344 Epoch 6/50
3345 20/20 [=====] - 0s 6ms/step - loss: 0.4302
3346 Epoch 7/50
3347 20/20 [=====] - 0s 6ms/step - loss: 0.4046
3348 Epoch 8/50
3349 20/20 [=====] - 0s 6ms/step - loss: 0.4214
3350 Epoch 9/50
3351 20/20 [=====] - 0s 6ms/step - loss: 0.4019
3352 Epoch 10/50
3353 20/20 [=====] - 0s 6ms/step - loss: 0.3915
3354 Epoch 11/50
3355 20/20 [=====] - 0s 6ms/step - loss: 0.3830
3356 Epoch 12/50
3357 20/20 [=====] - 0s 6ms/step - loss: 0.3677
3358 Epoch 13/50
3359 20/20 [=====] - 0s 6ms/step - loss: 0.3683
3360 Epoch 14/50
3361 20/20 [=====] - 0s 6ms/step - loss: 0.3590
3362 Epoch 15/50
3363 20/20 [=====] - 0s 6ms/step - loss: 0.3511
3364 Epoch 16/50
3365 20/20 [=====] - 0s 6ms/step - loss: 0.3407
3366 Epoch 17/50
3367 20/20 [=====] - 0s 6ms/step - loss: 0.3368
3368 Epoch 18/50
3369 20/20 [=====] - 0s 6ms/step - loss: 0.3225
3370 Epoch 19/50
3371 20/20 [=====] - 0s 6ms/step - loss: 0.3057
3372 Epoch 20/50
3373 20/20 [=====] - 0s 6ms/step - loss: 0.3134
3374 Epoch 21/50
3375 20/20 [=====] - 0s 6ms/step - loss: 0.3002
3376 Epoch 22/50
3377 20/20 [=====] - 0s 6ms/step - loss: 0.2926
3378 Epoch 23/50
3379 20/20 [=====] - 0s 6ms/step - loss: 0.2853
3380 Epoch 24/50
3381 20/20 [=====] - 0s 6ms/step - loss: 0.2823
3382 Epoch 25/50
3383 20/20 [=====] - 0s 6ms/step - loss: 0.2753
3384 Epoch 26/50
3385 20/20 [=====] - 0s 6ms/step - loss: 0.2751
3386 Epoch 27/50
3387 20/20 [=====] - 0s 6ms/step - loss: 0.2742
3388 Epoch 28/50
3389 20/20 [=====] - 0s 6ms/step - loss: 0.2718
3390 Epoch 29/50
3391 20/20 [=====] - 0s 6ms/step - loss: 0.2671
3392 Epoch 30/50
3393 20/20 [=====] - 0s 6ms/step - loss: 0.2859
3394 Epoch 31/50
3395 20/20 [=====] - 0s 6ms/step - loss: 0.2741
3396 Epoch 32/50
3397 20/20 [=====] - 0s 6ms/step - loss: 0.2765
3398 Epoch 33/50
3399 20/20 [=====] - 0s 6ms/step - loss: 0.2594
3400 Epoch 34/50
```


demo

```
3401 20/20 [=====] - 0s 6ms/step - loss: 0.2523
3402 Epoch 35/50
3403 20/20 [=====] - 0s 6ms/step - loss: 0.2524
3404 Epoch 36/50
3405 20/20 [=====] - 0s 6ms/step - loss: 0.2462
3406 Epoch 37/50
3407 20/20 [=====] - 0s 6ms/step - loss: 0.2496
3408 Epoch 38/50
3409 20/20 [=====] - 0s 6ms/step - loss: 0.2394
3410 Epoch 39/50
3411 20/20 [=====] - 0s 6ms/step - loss: 0.2457
3412 Epoch 40/50
3413 20/20 [=====] - 0s 6ms/step - loss: 0.2247
3414 Epoch 41/50
3415 20/20 [=====] - 0s 6ms/step - loss: 0.2403
3416 Epoch 42/50
3417 20/20 [=====] - 0s 6ms/step - loss: 0.2290
3418 Epoch 43/50
3419 20/20 [=====] - 0s 6ms/step - loss: 0.2261
3420 Epoch 44/50
3421 20/20 [=====] - 0s 6ms/step - loss: 0.2179
3422 Epoch 45/50
3423 20/20 [=====] - 0s 6ms/step - loss: 0.2215
3424 Epoch 46/50
3425 20/20 [=====] - 0s 6ms/step - loss: 0.2224
3426 Epoch 47/50
3427 20/20 [=====] - 0s 6ms/step - loss: 0.2378
3428 Epoch 48/50
3429 20/20 [=====] - 0s 6ms/step - loss: 0.2324
3430 Epoch 49/50
3431 20/20 [=====] - 0s 6ms/step - loss: 0.2417
3432 Epoch 50/50
3433 20/20 [=====] - 0s 6ms/step - loss: 0.2229
3434 Learning rate set to 0.005
3435 0: learn: 0.6849339 total: 11.4ms remaining: 11.4s
3436 1: learn: 0.6774208 total: 19.4ms remaining: 9.66s
3437 2: learn: 0.6696548 total: 27.1ms remaining: 9s
3438 3: learn: 0.6624359 total: 35.7ms remaining: 8.9s
3439 4: learn: 0.6552772 total: 44.3ms remaining: 8.81s
3440 5: learn: 0.6477687 total: 53.2ms remaining: 8.82s
3441 6: learn: 0.6410731 total: 61ms remaining: 8.65s
3442 7: learn: 0.6328554 total: 68.7ms remaining: 8.52s
3443 8: learn: 0.6256269 total: 76.6ms remaining: 8.43s
3444 9: learn: 0.6182328 total: 84.4ms remaining: 8.36s
3445 10: learn: 0.6113440 total: 92.6ms remaining: 8.32s
3446 11: learn: 0.6046218 total: 100ms remaining: 8.27s
3447 12: learn: 0.5990888 total: 108ms remaining: 8.22s
3448 13: learn: 0.5917113 total: 116ms remaining: 8.18s
3449 14: learn: 0.5856513 total: 124ms remaining: 8.13s
3450 15: learn: 0.5796445 total: 132ms remaining: 8.09s
3451 16: learn: 0.5717301 total: 139ms remaining: 8.06s
3452 17: learn: 0.5667836 total: 147ms remaining: 8.03s
3453 18: learn: 0.5602713 total: 155ms remaining: 8.01s
3454 19: learn: 0.5549311 total: 163ms remaining: 7.99s
3455 20: learn: 0.5479413 total: 171ms remaining: 7.98s
3456 21: learn: 0.5423224 total: 180ms remaining: 8s
3457 22: learn: 0.5373806 total: 189ms remaining: 8.02s
3458 23: learn: 0.5328215 total: 198ms remaining: 8.05s
3459 24: learn: 0.5276450 total: 207ms remaining: 8.07s
3460 25: learn: 0.5225615 total: 216ms remaining: 8.11s
3461 26: learn: 0.5161615 total: 225ms remaining: 8.12s
3462 27: learn: 0.5103995 total: 234ms remaining: 8.13s
3463 28: learn: 0.5048297 total: 243ms remaining: 8.13s
3464 29: learn: 0.4989312 total: 251ms remaining: 8.12s
3465 30: learn: 0.4942078 total: 259ms remaining: 8.11s
3466 31: learn: 0.4888806 total: 268ms remaining: 8.1s
3467 32: learn: 0.4845849 total: 276ms remaining: 8.09s
3468 33: learn: 0.4790669 total: 285ms remaining: 8.09s
3469 34: learn: 0.4733712 total: 293ms remaining: 8.08s
3470 35: learn: 0.4691087 total: 301ms remaining: 8.07s
3471 36: learn: 0.4627817 total: 310ms remaining: 8.06s
```

demo

3472	37:	learn:	0.4590526	total:	318msremaining:	8.04s
3473	38:	learn:	0.4533997	total:	326msremaining:	8.03s
3474	39:	learn:	0.4478938	total:	333msremaining:	8s
3475	40:	learn:	0.4432640	total:	341msremaining:	7.98s
3476	41:	learn:	0.4390293	total:	349msremaining:	7.96s
3477	42:	learn:	0.4334558	total:	357msremaining:	7.94s
3478	43:	learn:	0.4295891	total:	364msremaining:	7.92s
3479	44:	learn:	0.4259312	total:	372msremaining:	7.9s
3480	45:	learn:	0.4196637	total:	380msremaining:	7.88s
3481	46:	learn:	0.4146277	total:	388msremaining:	7.86s
3482	47:	learn:	0.4101150	total:	396msremaining:	7.84s
3483	48:	learn:	0.4057547	total:	404msremaining:	7.83s
3484	49:	learn:	0.4022231	total:	412msremaining:	7.83s
3485	50:	learn:	0.3985736	total:	420msremaining:	7.82s
3486	51:	learn:	0.3949876	total:	429msremaining:	7.82s
3487	52:	learn:	0.3908064	total:	437msremaining:	7.81s
3488	53:	learn:	0.3869517	total:	446msremaining:	7.81s
3489	54:	learn:	0.3831368	total:	454msremaining:	7.8s
3490	55:	learn:	0.3795238	total:	462msremaining:	7.8s
3491	56:	learn:	0.3751466	total:	470msremaining:	7.78s
3492	57:	learn:	0.3708242	total:	479msremaining:	7.79s
3493	58:	learn:	0.3671041	total:	488msremaining:	7.78s
3494	59:	learn:	0.3632107	total:	496msremaining:	7.77s
3495	60:	learn:	0.3596879	total:	505msremaining:	7.77s
3496	61:	learn:	0.3558176	total:	513msremaining:	7.76s
3497	62:	learn:	0.3514610	total:	521msremaining:	7.75s
3498	63:	learn:	0.3476821	total:	529msremaining:	7.74s
3499	64:	learn:	0.3445960	total:	537msremaining:	7.72s
3500	65:	learn:	0.3416314	total:	544msremaining:	7.7s
3501	66:	learn:	0.3383168	total:	552msremaining:	7.69s
3502	67:	learn:	0.3351718	total:	560msremaining:	7.67s
3503	68:	learn:	0.3319164	total:	568msremaining:	7.66s
3504	69:	learn:	0.3289568	total:	576msremaining:	7.65s
3505	70:	learn:	0.3263713	total:	584msremaining:	7.64s
3506	71:	learn:	0.3229786	total:	591msremaining:	7.62s
3507	72:	learn:	0.3190852	total:	599msremaining:	7.61s
3508	73:	learn:	0.3148448	total:	607msremaining:	7.6s
3509	74:	learn:	0.3118408	total:	616msremaining:	7.6s
3510	75:	learn:	0.3092851	total:	625msremaining:	7.6s
3511	76:	learn:	0.3057722	total:	633msremaining:	7.59s
3512	77:	learn:	0.3029873	total:	642msremaining:	7.59s
3513	78:	learn:	0.2997760	total:	651msremaining:	7.59s
3514	79:	learn:	0.2967035	total:	660msremaining:	7.59s
3515	80:	learn:	0.2943201	total:	668msremaining:	7.58s
3516	81:	learn:	0.2915300	total:	678msremaining:	7.59s
3517	82:	learn:	0.2880333	total:	687msremaining:	7.58s
3518	83:	learn:	0.2845350	total:	701msremaining:	7.65s
3519	84:	learn:	0.2812503	total:	710msremaining:	7.64s
3520	85:	learn:	0.2792690	total:	718msremaining:	7.63s
3521	86:	learn:	0.2772132	total:	726msremaining:	7.62s
3522	87:	learn:	0.2748347	total:	733msremaining:	7.6s
3523	88:	learn:	0.2719032	total:	741msremaining:	7.59s
3524	89:	learn:	0.2695813	total:	749msremaining:	7.57s
3525	90:	learn:	0.2670252	total:	757msremaining:	7.56s
3526	91:	learn:	0.2646600	total:	765msremaining:	7.55s
3527	92:	learn:	0.2618208	total:	772msremaining:	7.53s
3528	93:	learn:	0.2594181	total:	780msremaining:	7.51s
3529	94:	learn:	0.2562827	total:	787msremaining:	7.5s
3530	95:	learn:	0.2533184	total:	795msremaining:	7.49s
3531	96:	learn:	0.2509939	total:	803msremaining:	7.47s
3532	97:	learn:	0.2493613	total:	811msremaining:	7.46s
3533	98:	learn:	0.2472480	total:	819msremaining:	7.45s
3534	99:	learn:	0.2454810	total:	828msremaining:	7.45s
3535	100:	learn:	0.2429252	total:	836msremaining:	7.44s
3536	101:	learn:	0.2407436	total:	845msremaining:	7.43s
3537	102:	learn:	0.2384569	total:	853msremaining:	7.43s
3538	103:	learn:	0.2361424	total:	861msremaining:	7.42s
3539	104:	learn:	0.2345259	total:	870msremaining:	7.41s
3540	105:	learn:	0.2330103	total:	878msremaining:	7.4s
3541	106:	learn:	0.2316663	total:	886msremaining:	7.4s
3542	107:	learn:	0.2290050	total:	894msremaining:	7.38s

demo

3543	108:learn:	0.2259857	total:	902msremaining:	7.38s
3544	109:learn:	0.2239958	total:	911msremaining:	7.37s
3545	110:learn:	0.2222192	total:	919msremaining:	7.36s
3546	111:learn:	0.2204098	total:	927msremaining:	7.35s
3547	112:learn:	0.2190266	total:	935msremaining:	7.33s
3548	113:learn:	0.2174105	total:	942msremaining:	7.32s
3549	114:learn:	0.2146319	total:	950msremaining:	7.31s
3550	115:learn:	0.2122926	total:	958msremaining:	7.3s
3551	116:learn:	0.2104216	total:	966msremaining:	7.29s
3552	117:learn:	0.2087755	total:	974msremaining:	7.28s
3553	118:learn:	0.2069494	total:	981msremaining:	7.26s
3554	119:learn:	0.2049043	total:	989msremaining:	7.25s
3555	120:learn:	0.2033912	total:	997msremaining:	7.24s
3556	121:learn:	0.2016721	total:	1s remaining:	7.23s
3557	122:learn:	0.2001723	total:	1.01sremaining:	7.22s
3558	123:learn:	0.1985726	total:	1.02sremaining:	7.21s
3559	124:learn:	0.1970401	total:	1.03sremaining:	7.21s
3560	125:learn:	0.1953952	total:	1.04sremaining:	7.2s
3561	126:learn:	0.1940104	total:	1.05sremaining:	7.2s
3562	127:learn:	0.1921985	total:	1.06sremaining:	7.2s
3563	128:learn:	0.1911566	total:	1.06sremaining:	7.19s
3564	129:learn:	0.1898984	total:	1.07sremaining:	7.18s
3565	130:learn:	0.1884932	total:	1.08sremaining:	7.17s
3566	131:learn:	0.1871042	total:	1.09sremaining:	7.17s
3567	132:learn:	0.1852995	total:	1.1s remaining:	7.16s
3568	133:learn:	0.1839348	total:	1.11sremaining:	7.15s
3569	134:learn:	0.1822931	total:	1.11sremaining:	7.14s
3570	135:learn:	0.1806078	total:	1.12sremaining:	7.13s
3571	136:learn:	0.1791429	total:	1.13sremaining:	7.12s
3572	137:learn:	0.1778093	total:	1.14sremaining:	7.11s
3573	138:learn:	0.1763551	total:	1.15sremaining:	7.1s
3574	139:learn:	0.1749755	total:	1.15sremaining:	7.09s
3575	140:learn:	0.1734510	total:	1.16sremaining:	7.08s
3576	141:learn:	0.1717749	total:	1.17sremaining:	7.07s
3577	142:learn:	0.1707366	total:	1.18sremaining:	7.05s
3578	143:learn:	0.1691635	total:	1.18sremaining:	7.04s
3579	144:learn:	0.1679586	total:	1.19sremaining:	7.03s
3580	145:learn:	0.1666041	total:	1.2s remaining:	7.02s
3581	146:learn:	0.1649350	total:	1.21sremaining:	7.01s
3582	147:learn:	0.1636795	total:	1.22sremaining:	7s
3583	148:learn:	0.1623469	total:	1.22sremaining:	6.99s
3584	149:learn:	0.1612285	total:	1.23sremaining:	6.99s
3585	150:learn:	0.1598206	total:	1.24sremaining:	6.99s
3586	151:learn:	0.1582042	total:	1.25sremaining:	6.99s
3587	152:learn:	0.1570602	total:	1.26sremaining:	6.99s
3588	153:learn:	0.1560587	total:	1.27sremaining:	6.98s
3589	154:learn:	0.1552115	total:	1.28sremaining:	6.98s
3590	155:learn:	0.1543124	total:	1.29sremaining:	6.98s
3591	156:learn:	0.1531011	total:	1.3s remaining:	6.97s
3592	157:learn:	0.1515803	total:	1.31sremaining:	6.97s
3593	158:learn:	0.1504331	total:	1.32sremaining:	6.96s
3594	159:learn:	0.1495111	total:	1.32sremaining:	6.95s
3595	160:learn:	0.1485880	total:	1.33sremaining:	6.95s
3596	161:learn:	0.1474258	total:	1.34sremaining:	6.93s
3597	162:learn:	0.1463075	total:	1.35sremaining:	6.92s
3598	163:learn:	0.1453078	total:	1.36sremaining:	6.92s
3599	164:learn:	0.1444444	total:	1.36sremaining:	6.91s
3600	165:learn:	0.1434682	total:	1.37sremaining:	6.89s
3601	166:learn:	0.1423966	total:	1.38sremaining:	6.89s
3602	167:learn:	0.1413463	total:	1.39sremaining:	6.88s
3603	168:learn:	0.1403397	total:	1.4s remaining:	6.87s
3604	169:learn:	0.1392900	total:	1.4s remaining:	6.86s
3605	170:learn:	0.1382584	total:	1.41sremaining:	6.85s
3606	171:learn:	0.1373130	total:	1.42sremaining:	6.84s
3607	172:learn:	0.1361480	total:	1.43sremaining:	6.83s
3608	173:learn:	0.1352045	total:	1.44sremaining:	6.83s
3609	174:learn:	0.1342792	total:	1.45sremaining:	6.82s
3610	175:learn:	0.1334736	total:	1.46sremaining:	6.82s
3611	176:learn:	0.1322135	total:	1.46sremaining:	6.81s
3612	177:learn:	0.1312300	total:	1.47sremaining:	6.8s
3613	178:learn:	0.1302985	total:	1.48sremaining:	6.79s

demo

3614	179:learn:	0.1295211	total:	1.49s	remaining:	6.79s
3615	180:learn:	0.1287374	total:	1.5s	remaining:	6.78s
3616	181:learn:	0.1281316	total:	1.51s	remaining:	6.77s
3617	182:learn:	0.1273581	total:	1.51s	remaining:	6.77s
3618	183:learn:	0.1264326	total:	1.52s	remaining:	6.76s
3619	184:learn:	0.1252773	total:	1.53s	remaining:	6.75s
3620	185:learn:	0.1241537	total:	1.54s	remaining:	6.74s
3621	186:learn:	0.1233634	total:	1.55s	remaining:	6.73s
3622	187:learn:	0.1222437	total:	1.56s	remaining:	6.72s
3623	188:learn:	0.1212523	total:	1.56s	remaining:	6.71s
3624	189:learn:	0.1204434	total:	1.57s	remaining:	6.7s
3625	190:learn:	0.1193684	total:	1.58s	remaining:	6.69s
3626	191:learn:	0.1186396	total:	1.59s	remaining:	6.68s
3627	192:learn:	0.1179321	total:	1.6s	remaining:	6.68s
3628	193:learn:	0.1169074	total:	1.6s	remaining:	6.67s
3629	194:learn:	0.1159538	total:	1.61s	remaining:	6.66s
3630	195:learn:	0.1152305	total:	1.62s	remaining:	6.66s
3631	196:learn:	0.1145392	total:	1.63s	remaining:	6.65s
3632	197:learn:	0.1137994	total:	1.64s	remaining:	6.65s
3633	198:learn:	0.1126930	total:	1.65s	remaining:	6.64s
3634	199:learn:	0.1120304	total:	1.66s	remaining:	6.64s
3635	200:learn:	0.1112435	total:	1.67s	remaining:	6.63s
3636	201:learn:	0.1105068	total:	1.68s	remaining:	6.62s
3637	202:learn:	0.1096295	total:	1.68s	remaining:	6.61s
3638	203:learn:	0.1090509	total:	1.69s	remaining:	6.6s
3639	204:learn:	0.1083841	total:	1.7s	remaining:	6.6s
3640	205:learn:	0.1075687	total:	1.71s	remaining:	6.59s
3641	206:learn:	0.1070112	total:	1.72s	remaining:	6.58s
3642	207:learn:	0.1062042	total:	1.73s	remaining:	6.57s
3643	208:learn:	0.1055210	total:	1.73s	remaining:	6.56s
3644	209:learn:	0.1046239	total:	1.74s	remaining:	6.55s
3645	210:learn:	0.1040170	total:	1.75s	remaining:	6.54s
3646	211:learn:	0.1036208	total:	1.76s	remaining:	6.53s
3647	212:learn:	0.1030058	total:	1.76s	remaining:	6.52s
3648	213:learn:	0.1023837	total:	1.77s	remaining:	6.51s
3649	214:learn:	0.1016536	total:	1.78s	remaining:	6.5s
3650	215:learn:	0.1011236	total:	1.79s	remaining:	6.49s
3651	216:learn:	0.1003951	total:	1.8s	remaining:	6.48s
3652	217:learn:	0.0996561	total:	1.8s	remaining:	6.47s
3653	218:learn:	0.0990589	total:	1.81s	remaining:	6.46s
3654	219:learn:	0.0984640	total:	1.82s	remaining:	6.45s
3655	220:learn:	0.0978290	total:	1.83s	remaining:	6.45s
3656	221:learn:	0.0972991	total:	1.84s	remaining:	6.44s
3657	222:learn:	0.0968006	total:	1.84s	remaining:	6.43s
3658	223:learn:	0.0962296	total:	1.85s	remaining:	6.42s
3659	224:learn:	0.0958139	total:	1.86s	remaining:	6.42s
3660	225:learn:	0.0950105	total:	1.87s	remaining:	6.41s
3661	226:learn:	0.0944464	total:	1.88s	remaining:	6.4s
3662	227:learn:	0.0939047	total:	1.89s	remaining:	6.39s
3663	228:learn:	0.0933527	total:	1.9s	remaining:	6.39s
3664	229:learn:	0.0926657	total:	1.91s	remaining:	6.38s
3665	230:learn:	0.0921309	total:	1.91s	remaining:	6.37s
3666	231:learn:	0.0914327	total:	1.92s	remaining:	6.36s
3667	232:learn:	0.0905681	total:	1.93s	remaining:	6.36s
3668	233:learn:	0.0901545	total:	1.94s	remaining:	6.34s
3669	234:learn:	0.0895194	total:	1.95s	remaining:	6.33s
3670	235:learn:	0.0889798	total:	1.95s	remaining:	6.33s
3671	236:learn:	0.0882916	total:	1.96s	remaining:	6.32s
3672	237:learn:	0.0876693	total:	1.97s	remaining:	6.31s
3673	238:learn:	0.0869367	total:	1.98s	remaining:	6.3s
3674	239:learn:	0.0864905	total:	1.99s	remaining:	6.29s
3675	240:learn:	0.0860859	total:	1.99s	remaining:	6.28s
3676	241:learn:	0.0853627	total:	2s	remaining:	6.27s
3677	242:learn:	0.0847243	total:	2.01s	remaining:	6.26s
3678	243:learn:	0.0841653	total:	2.02s	remaining:	6.25s
3679	244:learn:	0.0837623	total:	2.02s	remaining:	6.24s
3680	245:learn:	0.0832028	total:	2.03s	remaining:	6.23s
3681	246:learn:	0.0827946	total:	2.04s	remaining:	6.23s
3682	247:learn:	0.0822913	total:	2.05s	remaining:	6.22s
3683	248:learn:	0.0818559	total:	2.06s	remaining:	6.21s
3684	249:learn:	0.0813278	total:	2.07s	remaining:	6.2s

demo

3685	250:learn:	0.0805888	total:	2.08sremaining:	6.2s
3686	251:learn:	0.0799693	total:	2.08sremaining:	6.19s
3687	252:learn:	0.0794488	total:	2.09sremaining:	6.18s
3688	253:learn:	0.0790397	total:	2.1s remaining:	6.17s
3689	254:learn:	0.0785998	total:	2.11sremaining:	6.17s
3690	255:learn:	0.0781749	total:	2.12sremaining:	6.16s
3691	256:learn:	0.0778358	total:	2.13sremaining:	6.15s
3692	257:learn:	0.0774636	total:	2.14sremaining:	6.14s
3693	258:learn:	0.0770772	total:	2.14sremaining:	6.13s
3694	259:learn:	0.0766158	total:	2.15sremaining:	6.12s
3695	260:learn:	0.0762386	total:	2.16sremaining:	6.12s
3696	261:learn:	0.0758210	total:	2.17sremaining:	6.11s
3697	262:learn:	0.0753338	total:	2.17sremaining:	6.1s
3698	263:learn:	0.0749408	total:	2.18sremaining:	6.09s
3699	264:learn:	0.0746541	total:	2.19sremaining:	6.08s
3700	265:learn:	0.0742806	total:	2.2s remaining:	6.07s
3701	266:learn:	0.0738812	total:	2.21sremaining:	6.06s
3702	267:learn:	0.0734522	total:	2.21sremaining:	6.05s
3703	268:learn:	0.0731058	total:	2.22sremaining:	6.04s
3704	269:learn:	0.0725766	total:	2.23sremaining:	6.03s
3705	270:learn:	0.0722787	total:	2.24sremaining:	6.02s
3706	271:learn:	0.0718309	total:	2.25sremaining:	6.02s
3707	272:learn:	0.0713897	total:	2.26sremaining:	6.01s
3708	273:learn:	0.0710754	total:	2.26sremaining:	6s
3709	274:learn:	0.0707214	total:	2.27sremaining:	5.99s
3710	275:learn:	0.0704024	total:	2.28sremaining:	5.99s
3711	276:learn:	0.0699456	total:	2.29sremaining:	5.98s
3712	277:learn:	0.0694709	total:	2.3s remaining:	5.97s
3713	278:learn:	0.0691437	total:	2.31sremaining:	5.97s
3714	279:learn:	0.0688122	total:	2.32sremaining:	5.96s
3715	280:learn:	0.0683391	total:	2.33sremaining:	5.96s
3716	281:learn:	0.0677237	total:	2.34sremaining:	5.95s
3717	282:learn:	0.0673231	total:	2.35sremaining:	5.94s
3718	283:learn:	0.0670414	total:	2.35sremaining:	5.93s
3719	284:learn:	0.0666115	total:	2.36sremaining:	5.93s
3720	285:learn:	0.0661363	total:	2.37sremaining:	5.92s
3721	286:learn:	0.0657225	total:	2.38sremaining:	5.91s
3722	287:learn:	0.0653287	total:	2.39sremaining:	5.9s
3723	288:learn:	0.0649775	total:	2.39sremaining:	5.89s
3724	289:learn:	0.0644837	total:	2.4s remaining:	5.88s
3725	290:learn:	0.0641541	total:	2.41sremaining:	5.87s
3726	291:learn:	0.0637928	total:	2.42sremaining:	5.86s
3727	292:learn:	0.0634872	total:	2.42sremaining:	5.85s
3728	293:learn:	0.0630870	total:	2.43sremaining:	5.85s
3729	294:learn:	0.0627520	total:	2.44sremaining:	5.84s
3730	295:learn:	0.0623881	total:	2.45sremaining:	5.83s
3731	296:learn:	0.0621155	total:	2.46sremaining:	5.82s
3732	297:learn:	0.0617693	total:	2.47sremaining:	5.82s
3733	298:learn:	0.0614581	total:	2.48sremaining:	5.81s
3734	299:learn:	0.0609426	total:	2.49sremaining:	5.8s
3735	300:learn:	0.0605603	total:	2.5s remaining:	5.8s
3736	301:learn:	0.0602003	total:	2.5s remaining:	5.79s
3737	302:learn:	0.0597909	total:	2.51sremaining:	5.78s
3738	303:learn:	0.0593732	total:	2.52sremaining:	5.77s
3739	304:learn:	0.0590163	total:	2.53sremaining:	5.77s
3740	305:learn:	0.0587548	total:	2.54sremaining:	5.76s
3741	306:learn:	0.0584990	total:	2.55sremaining:	5.75s
3742	307:learn:	0.0581634	total:	2.55sremaining:	5.74s
3743	308:learn:	0.0578641	total:	2.56sremaining:	5.73s
3744	309:learn:	0.0573982	total:	2.57sremaining:	5.72s
3745	310:learn:	0.0571357	total:	2.58sremaining:	5.71s
3746	311:learn:	0.0568301	total:	2.58sremaining:	5.7s
3747	312:learn:	0.0564926	total:	2.59sremaining:	5.69s
3748	313:learn:	0.0561890	total:	2.6s remaining:	5.68s
3749	314:learn:	0.0559385	total:	2.61sremaining:	5.68s
3750	315:learn:	0.0555121	total:	2.62sremaining:	5.67s
3751	316:learn:	0.0551658	total:	2.63sremaining:	5.66s
3752	317:learn:	0.0548714	total:	2.63sremaining:	5.65s
3753	318:learn:	0.0544831	total:	2.64sremaining:	5.64s
3754	319:learn:	0.0540657	total:	2.65sremaining:	5.64s
3755	320:learn:	0.0538528	total:	2.66sremaining:	5.63s

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3756	321:learn:	0.0536051	total:	2.67s	remaining:	5.62s
3757	322:learn:	0.0533724	total:	2.68s	remaining:	5.61s
3758	323:learn:	0.0530098	total:	2.69s	remaining:	5.61s
3759	324:learn:	0.0526925	total:	2.69s	remaining:	5.6s
3760	325:learn:	0.0524157	total:	2.7s	remaining:	5.59s
3761	326:learn:	0.0521763	total:	2.71s	remaining:	5.58s
3762	327:learn:	0.0519233	total:	2.72s	remaining:	5.57s
3763	328:learn:	0.0515680	total:	2.73s	remaining:	5.57s
3764	329:learn:	0.0512052	total:	2.74s	remaining:	5.56s
3765	330:learn:	0.0509930	total:	2.74s	remaining:	5.55s
3766	331:learn:	0.0507230	total:	2.75s	remaining:	5.54s
3767	332:learn:	0.0504914	total:	2.76s	remaining:	5.53s
3768	333:learn:	0.0502699	total:	2.77s	remaining:	5.52s
3769	334:learn:	0.0500335	total:	2.78s	remaining:	5.51s
3770	335:learn:	0.0497581	total:	2.78s	remaining:	5.5s
3771	336:learn:	0.0494765	total:	2.79s	remaining:	5.49s
3772	337:learn:	0.0491579	total:	2.8s	remaining:	5.48s
3773	338:learn:	0.0487934	total:	2.81s	remaining:	5.47s
3774	339:learn:	0.0484550	total:	2.81s	remaining:	5.46s
3775	340:learn:	0.0482523	total:	2.82s	remaining:	5.46s
3776	341:learn:	0.0480406	total:	2.83s	remaining:	5.45s
3777	342:learn:	0.0478174	total:	2.84s	remaining:	5.44s
3778	343:learn:	0.0475749	total:	2.85s	remaining:	5.43s
3779	344:learn:	0.0472901	total:	2.86s	remaining:	5.42s
3780	345:learn:	0.0470407	total:	2.86s	remaining:	5.41s
3781	346:learn:	0.0468534	total:	2.88s	remaining:	5.41s
3782	347:learn:	0.0467251	total:	2.88s	remaining:	5.4s
3783	348:learn:	0.0465466	total:	2.89s	remaining:	5.39s
3784	349:learn:	0.0463673	total:	2.9s	remaining:	5.39s
3785	350:learn:	0.0461499	total:	2.91s	remaining:	5.38s
3786	351:learn:	0.0459164	total:	2.92s	remaining:	5.37s
3787	352:learn:	0.0455845	total:	2.92s	remaining:	5.36s
3788	353:learn:	0.0453591	total:	2.93s	remaining:	5.35s
3789	354:learn:	0.0451303	total:	2.94s	remaining:	5.34s
3790	355:learn:	0.0448537	total:	2.95s	remaining:	5.34s
3791	356:learn:	0.0446360	total:	2.96s	remaining:	5.33s
3792	357:learn:	0.0442810	total:	2.96s	remaining:	5.32s
3793	358:learn:	0.0440068	total:	2.97s	remaining:	5.31s
3794	359:learn:	0.0438219	total:	2.98s	remaining:	5.3s
3795	360:learn:	0.0435744	total:	2.99s	remaining:	5.29s
3796	361:learn:	0.0434227	total:	3s	remaining:	5.28s
3797	362:learn:	0.0431997	total:	3s	remaining:	5.27s
3798	363:learn:	0.0430256	total:	3.01s	remaining:	5.26s
3799	364:learn:	0.0428894	total:	3.02s	remaining:	5.26s
3800	365:learn:	0.0427275	total:	3.03s	remaining:	5.25s
3801	366:learn:	0.0425624	total:	3.04s	remaining:	5.24s
3802	367:learn:	0.0424080	total:	3.05s	remaining:	5.23s
3803	368:learn:	0.0421140	total:	3.06s	remaining:	5.23s
3804	369:learn:	0.0419527	total:	3.06s	remaining:	5.22s
3805	370:learn:	0.0417950	total:	3.07s	remaining:	5.21s
3806	371:learn:	0.0416303	total:	3.08s	remaining:	5.2s
3807	372:learn:	0.0413059	total:	3.09s	remaining:	5.2s
3808	373:learn:	0.0411308	total:	3.1s	remaining:	5.19s
3809	374:learn:	0.0409048	total:	3.11s	remaining:	5.18s
3810	375:learn:	0.0406591	total:	3.12s	remaining:	5.17s
3811	376:learn:	0.0405174	total:	3.13s	remaining:	5.17s
3812	377:learn:	0.0403249	total:	3.13s	remaining:	5.16s
3813	378:learn:	0.0401432	total:	3.14s	remaining:	5.15s
3814	379:learn:	0.0398955	total:	3.15s	remaining:	5.14s
3815	380:learn:	0.0397121	total:	3.16s	remaining:	5.13s
3816	381:learn:	0.0395434	total:	3.17s	remaining:	5.13s
3817	382:learn:	0.0393774	total:	3.17s	remaining:	5.12s
3818	383:learn:	0.0391980	total:	3.18s	remaining:	5.11s
3819	384:learn:	0.0390256	total:	3.19s	remaining:	5.1s
3820	385:learn:	0.0388254	total:	3.2s	remaining:	5.09s
3821	386:learn:	0.0386681	total:	3.21s	remaining:	5.08s
3822	387:learn:	0.0384635	total:	3.21s	remaining:	5.07s
3823	388:learn:	0.0382804	total:	3.22s	remaining:	5.06s
3824	389:learn:	0.0381249	total:	3.23s	remaining:	5.05s
3825	390:learn:	0.0378780	total:	3.24s	remaining:	5.04s
3826	391:learn:	0.0377197	total:	3.25s	remaining:	5.04s

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3827	392:learn:	0.0375676	total:	3.25s	remaining:	5.03s
3828	393:learn:	0.0373825	total:	3.26s	remaining:	5.02s
3829	394:learn:	0.0372536	total:	3.27s	remaining:	5.01s
3830	395:learn:	0.0369993	total:	3.28s	remaining:	5s
3831	396:learn:	0.0368507	total:	3.29s	remaining:	5s
3832	397:learn:	0.0367207	total:	3.3s	remaining:	4.99s
3833	398:learn:	0.0365655	total:	3.31s	remaining:	4.98s
3834	399:learn:	0.0363046	total:	3.31s	remaining:	4.97s
3835	400:learn:	0.0361345	total:	3.32s	remaining:	4.96s
3836	401:learn:	0.0359906	total:	3.33s	remaining:	4.96s
3837	402:learn:	0.0358318	total:	3.34s	remaining:	4.95s
3838	403:learn:	0.0356841	total:	3.35s	remaining:	4.94s
3839	404:learn:	0.0355840	total:	3.36s	remaining:	4.93s
3840	405:learn:	0.0354008	total:	3.37s	remaining:	4.92s
3841	406:learn:	0.0352473	total:	3.37s	remaining:	4.92s
3842	407:learn:	0.0351396	total:	3.38s	remaining:	4.91s
3843	408:learn:	0.0349025	total:	3.39s	remaining:	4.9s
3844	409:learn:	0.0347865	total:	3.4s	remaining:	4.89s
3845	410:learn:	0.0346115	total:	3.41s	remaining:	4.88s
3846	411:learn:	0.0345072	total:	3.42s	remaining:	4.88s
3847	412:learn:	0.0343866	total:	3.43s	remaining:	4.87s
3848	413:learn:	0.0342000	total:	3.43s	remaining:	4.86s
3849	414:learn:	0.0340499	total:	3.44s	remaining:	4.85s
3850	415:learn:	0.0339435	total:	3.45s	remaining:	4.84s
3851	416:learn:	0.0337745	total:	3.46s	remaining:	4.84s
3852	417:learn:	0.0335922	total:	3.47s	remaining:	4.83s
3853	418:learn:	0.0334850	total:	3.48s	remaining:	4.82s
3854	419:learn:	0.0333649	total:	3.49s	remaining:	4.81s
3855	420:learn:	0.0332522	total:	3.5s	remaining:	4.81s
3856	421:learn:	0.0331250	total:	3.5s	remaining:	4.8s
3857	422:learn:	0.0330048	total:	3.51s	remaining:	4.79s
3858	423:learn:	0.0328651	total:	3.52s	remaining:	4.78s
3859	424:learn:	0.0327400	total:	3.53s	remaining:	4.78s
3860	425:learn:	0.0326238	total:	3.54s	remaining:	4.77s
3861	426:learn:	0.0325265	total:	3.56s	remaining:	4.77s
3862	427:learn:	0.0324022	total:	3.56s	remaining:	4.76s
3863	428:learn:	0.0322517	total:	3.57s	remaining:	4.75s
3864	429:learn:	0.0320979	total:	3.58s	remaining:	4.74s
3865	430:learn:	0.0318989	total:	3.59s	remaining:	4.74s
3866	431:learn:	0.0317823	total:	3.6s	remaining:	4.73s
3867	432:learn:	0.0316681	total:	3.6s	remaining:	4.72s
3868	433:learn:	0.0315905	total:	3.61s	remaining:	4.71s
3869	434:learn:	0.0313929	total:	3.62s	remaining:	4.7s
3870	435:learn:	0.0311573	total:	3.63s	remaining:	4.7s
3871	436:learn:	0.0310648	total:	3.64s	remaining:	4.69s
3872	437:learn:	0.0308943	total:	3.65s	remaining:	4.68s
3873	438:learn:	0.0307620	total:	3.65s	remaining:	4.67s
3874	439:learn:	0.0305808	total:	3.66s	remaining:	4.66s
3875	440:learn:	0.0304166	total:	3.67s	remaining:	4.65s
3876	441:learn:	0.0302596	total:	3.68s	remaining:	4.64s
3877	442:learn:	0.0301285	total:	3.69s	remaining:	4.63s
3878	443:learn:	0.0300584	total:	3.69s	remaining:	4.63s
3879	444:learn:	0.0299581	total:	3.7s	remaining:	4.62s
3880	445:learn:	0.0298450	total:	3.71s	remaining:	4.61s
3881	446:learn:	0.0297289	total:	3.72s	remaining:	4.6s
3882	447:learn:	0.0296131	total:	3.73s	remaining:	4.6s
3883	448:learn:	0.0295226	total:	3.74s	remaining:	4.59s
3884	449:learn:	0.0294173	total:	3.75s	remaining:	4.58s
3885	450:learn:	0.0293381	total:	3.76s	remaining:	4.57s
3886	451:learn:	0.0291969	total:	3.76s	remaining:	4.56s
3887	452:learn:	0.0291172	total:	3.77s	remaining:	4.55s
3888	453:learn:	0.0289762	total:	3.78s	remaining:	4.55s
3889	454:learn:	0.0288565	total:	3.79s	remaining:	4.54s
3890	455:learn:	0.0287705	total:	3.8s	remaining:	4.53s
3891	456:learn:	0.0285884	total:	3.8s	remaining:	4.52s
3892	457:learn:	0.0284059	total:	3.81s	remaining:	4.51s
3893	458:learn:	0.0283081	total:	3.82s	remaining:	4.5s
3894	459:learn:	0.0281785	total:	3.83s	remaining:	4.49s
3895	460:learn:	0.0279926	total:	3.83s	remaining:	4.48s
3896	461:learn:	0.0278247	total:	3.84s	remaining:	4.47s
3897	462:learn:	0.0277048	total:	3.85s	remaining:	4.47s

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3898	463:learn:	0.0275911	total:	3.86s	remaining:	4.46s
3899	464:learn:	0.0274733	total:	3.87s	remaining:	4.45s
3900	465:learn:	0.0273038	total:	3.88s	remaining:	4.44s
3901	466:learn:	0.0272140	total:	3.88s	remaining:	4.43s
3902	467:learn:	0.0270867	total:	3.89s	remaining:	4.42s
3903	468:learn:	0.0270085	total:	3.9s	remaining:	4.42s
3904	469:learn:	0.0269274	total:	3.91s	remaining:	4.41s
3905	470:learn:	0.0268335	total:	3.92s	remaining:	4.4s
3906	471:learn:	0.0266975	total:	3.93s	remaining:	4.39s
3907	472:learn:	0.0265777	total:	3.94s	remaining:	4.38s
3908	473:learn:	0.0264765	total:	3.94s	remaining:	4.38s
3909	474:learn:	0.0263788	total:	3.95s	remaining:	4.37s
3910	475:learn:	0.0263053	total:	3.96s	remaining:	4.36s
3911	476:learn:	0.0261873	total:	3.97s	remaining:	4.35s
3912	477:learn:	0.0261014	total:	3.98s	remaining:	4.34s
3913	478:learn:	0.0260089	total:	3.99s	remaining:	4.33s
3914	479:learn:	0.0259016	total:	3.99s	remaining:	4.33s
3915	480:learn:	0.0258337	total:	4s	remaining:	4.32s
3916	481:learn:	0.0257576	total:	4.01s	remaining:	4.31s
3917	482:learn:	0.0256923	total:	4.02s	remaining:	4.3s
3918	483:learn:	0.0256090	total:	4.03s	remaining:	4.29s
3919	484:learn:	0.0255320	total:	4.03s	remaining:	4.28s
3920	485:learn:	0.0254462	total:	4.04s	remaining:	4.27s
3921	486:learn:	0.0253519	total:	4.05s	remaining:	4.26s
3922	487:learn:	0.0252936	total:	4.06s	remaining:	4.26s
3923	488:learn:	0.0252230	total:	4.07s	remaining:	4.25s
3924	489:learn:	0.0250778	total:	4.07s	remaining:	4.24s
3925	490:learn:	0.0249943	total:	4.08s	remaining:	4.23s
3926	491:learn:	0.0249319	total:	4.09s	remaining:	4.22s
3927	492:learn:	0.0248378	total:	4.1s	remaining:	4.22s
3928	493:learn:	0.0247632	total:	4.11s	remaining:	4.21s
3929	494:learn:	0.0246953	total:	4.12s	remaining:	4.2s
3930	495:learn:	0.0246074	total:	4.13s	remaining:	4.19s
3931	496:learn:	0.0245248	total:	4.13s	remaining:	4.18s
3932	497:learn:	0.0244458	total:	4.14s	remaining:	4.17s
3933	498:learn:	0.0243601	total:	4.15s	remaining:	4.17s
3934	499:learn:	0.0242882	total:	4.16s	remaining:	4.16s
3935	500:learn:	0.0242085	total:	4.17s	remaining:	4.15s
3936	501:learn:	0.0240985	total:	4.17s	remaining:	4.14s
3937	502:learn:	0.0240017	total:	4.18s	remaining:	4.13s
3938	503:learn:	0.0239349	total:	4.19s	remaining:	4.12s
3939	504:learn:	0.0238532	total:	4.2s	remaining:	4.12s
3940	505:learn:	0.0237787	total:	4.21s	remaining:	4.11s
3941	506:learn:	0.0236926	total:	4.21s	remaining:	4.1s
3942	507:learn:	0.0236127	total:	4.22s	remaining:	4.09s
3943	508:learn:	0.0235016	total:	4.23s	remaining:	4.08s
3944	509:learn:	0.0234452	total:	4.24s	remaining:	4.07s
3945	510:learn:	0.0233845	total:	4.25s	remaining:	4.06s
3946	511:learn:	0.0232937	total:	4.25s	remaining:	4.05s
3947	512:learn:	0.0232340	total:	4.26s	remaining:	4.05s
3948	513:learn:	0.0231497	total:	4.27s	remaining:	4.04s
3949	514:learn:	0.0230604	total:	4.28s	remaining:	4.03s
3950	515:learn:	0.0229755	total:	4.29s	remaining:	4.02s
3951	516:learn:	0.0229101	total:	4.29s	remaining:	4.01s
3952	517:learn:	0.0228303	total:	4.3s	remaining:	4s
3953	518:learn:	0.0227050	total:	4.31s	remaining:	4s
3954	519:learn:	0.0226401	total:	4.32s	remaining:	3.99s
3955	520:learn:	0.0225709	total:	4.33s	remaining:	3.98s
3956	521:learn:	0.0225153	total:	4.34s	remaining:	3.97s
3957	522:learn:	0.0224029	total:	4.35s	remaining:	3.96s
3958	523:learn:	0.0223393	total:	4.36s	remaining:	3.96s
3959	524:learn:	0.0222827	total:	4.36s	remaining:	3.95s
3960	525:learn:	0.0222214	total:	4.37s	remaining:	3.94s
3961	526:learn:	0.0221503	total:	4.38s	remaining:	3.93s
3962	527:learn:	0.0220105	total:	4.39s	remaining:	3.92s
3963	528:learn:	0.0219041	total:	4.4s	remaining:	3.91s
3964	529:learn:	0.0218510	total:	4.4s	remaining:	3.9s
3965	530:learn:	0.0217785	total:	4.41s	remaining:	3.9s
3966	531:learn:	0.0217196	total:	4.42s	remaining:	3.89s
3967	532:learn:	0.0216386	total:	4.43s	remaining:	3.88s
3968	533:learn:	0.0215556	total:	4.44s	remaining:	3.87s

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3969	534:learn:	0.0213981	total:	4.45sremaining:	3.86s
3970	535:learn:	0.0213288	total:	4.46sremaining:	3.86s
3971	536:learn:	0.0212277	total:	4.46sremaining:	3.85s
3972	537:learn:	0.0211766	total:	4.47sremaining:	3.84s
3973	538:learn:	0.0211340	total:	4.48sremaining:	3.83s
3974	539:learn:	0.0210395	total:	4.49sremaining:	3.83s
3975	540:learn:	0.0209654	total:	4.5s remaining:	3.82s
3976	541:learn:	0.0208914	total:	4.51sremaining:	3.81s
3977	542:learn:	0.0208284	total:	4.52sremaining:	3.8s
3978	543:learn:	0.0207611	total:	4.53sremaining:	3.79s
3979	544:learn:	0.0206785	total:	4.54sremaining:	3.79s
3980	545:learn:	0.0206010	total:	4.54sremaining:	3.78s
3981	546:learn:	0.0205455	total:	4.55sremaining:	3.77s
3982	547:learn:	0.0204536	total:	4.56sremaining:	3.76s
3983	548:learn:	0.0203913	total:	4.57sremaining:	3.75s
3984	549:learn:	0.0203177	total:	4.58sremaining:	3.75s
3985	550:learn:	0.0202666	total:	4.59sremaining:	3.74s
3986	551:learn:	0.0202037	total:	4.59sremaining:	3.73s
3987	552:learn:	0.0201393	total:	4.6s remaining:	3.72s
3988	553:learn:	0.0200887	total:	4.61sremaining:	3.71s
3989	554:learn:	0.0200442	total:	4.62sremaining:	3.7s
3990	555:learn:	0.0199404	total:	4.63sremaining:	3.69s
3991	556:learn:	0.0198460	total:	4.63sremaining:	3.69s
3992	557:learn:	0.0198079	total:	4.64sremaining:	3.68s
3993	558:learn:	0.0197207	total:	4.65sremaining:	3.67s
3994	559:learn:	0.0196433	total:	4.66sremaining:	3.66s
3995	560:learn:	0.0195650	total:	4.67sremaining:	3.65s
3996	561:learn:	0.0194995	total:	4.67sremaining:	3.64s
3997	562:learn:	0.0194515	total:	4.68sremaining:	3.63s
3998	563:learn:	0.0193874	total:	4.69sremaining:	3.63s
3999	564:learn:	0.0193093	total:	4.7s remaining:	3.62s
4000	565:learn:	0.0192400	total:	4.71sremaining:	3.61s
4001	566:learn:	0.0191216	total:	4.72sremaining:	3.6s
4002	567:learn:	0.0190803	total:	4.72sremaining:	3.59s
4003	568:learn:	0.0190031	total:	4.73sremaining:	3.58s
4004	569:learn:	0.0189470	total:	4.74sremaining:	3.58s
4005	570:learn:	0.0188778	total:	4.75sremaining:	3.57s
4006	571:learn:	0.0188264	total:	4.76sremaining:	3.56s
4007	572:learn:	0.0187800	total:	4.77sremaining:	3.55s
4008	573:learn:	0.0187365	total:	4.78sremaining:	3.54s
4009	574:learn:	0.0186965	total:	4.78sremaining:	3.54s
4010	575:learn:	0.0186652	total:	4.79sremaining:	3.53s
4011	576:learn:	0.0186276	total:	4.8s remaining:	3.52s
4012	577:learn:	0.0185605	total:	4.81sremaining:	3.51s
4013	578:learn:	0.0184896	total:	4.81sremaining:	3.5s
4014	579:learn:	0.0184257	total:	4.82sremaining:	3.49s
4015	580:learn:	0.0183800	total:	4.83sremaining:	3.48s
4016	581:learn:	0.0183352	total:	4.84sremaining:	3.48s
4017	582:learn:	0.0182627	total:	4.85sremaining:	3.47s
4018	583:learn:	0.0182050	total:	4.86sremaining:	3.46s
4019	584:learn:	0.0181665	total:	4.86sremaining:	3.45s
4020	585:learn:	0.0181271	total:	4.87sremaining:	3.44s
4021	586:learn:	0.0180664	total:	4.88sremaining:	3.43s
4022	587:learn:	0.0180021	total:	4.89sremaining:	3.42s
4023	588:learn:	0.0179635	total:	4.9s remaining:	3.42s
4024	589:learn:	0.0178833	total:	4.91sremaining:	3.41s
4025	590:learn:	0.0178479	total:	4.91sremaining:	3.4s
4026	591:learn:	0.0177639	total:	4.92sremaining:	3.39s
4027	592:learn:	0.0176651	total:	4.93sremaining:	3.38s
4028	593:learn:	0.0175970	total:	4.94sremaining:	3.38s
4029	594:learn:	0.0175556	total:	4.95sremaining:	3.37s
4030	595:learn:	0.0175100	total:	4.96sremaining:	3.36s
4031	596:learn:	0.0174228	total:	4.96sremaining:	3.35s
4032	597:learn:	0.0173399	total:	4.97sremaining:	3.34s
4033	598:learn:	0.0172909	total:	4.98sremaining:	3.33s
4034	599:learn:	0.0172546	total:	4.99sremaining:	3.33s
4035	600:learn:	0.0172202	total:	5s remaining:	3.32s
4036	601:learn:	0.0171779	total:	5s remaining:	3.31s
4037	602:learn:	0.0171401	total:	5.01sremaining:	3.3s
4038	603:learn:	0.0170964	total:	5.02sremaining:	3.29s
4039	604:learn:	0.0170337	total:	5.03sremaining:	3.28s

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4040	605:learn:	0.0169872	total:	5.04sremaining:	3.27s
4041	606:learn:	0.0168938	total:	5.04sremaining:	3.27s
4042	607:learn:	0.0168452	total:	5.05sremaining:	3.26s
4043	608:learn:	0.0167772	total:	5.06sremaining:	3.25s
4044	609:learn:	0.0167188	total:	5.07sremaining:	3.24s
4045	610:learn:	0.0166480	total:	5.08sremaining:	3.23s
4046	611:learn:	0.0166108	total:	5.08sremaining:	3.22s
4047	612:learn:	0.0165768	total:	5.09sremaining:	3.21s
4048	613:learn:	0.0165365	total:	5.1s remaining:	3.21s
4049	614:learn:	0.0164881	total:	5.11sremaining:	3.2s
4050	615:learn:	0.0164295	total:	5.12sremaining:	3.19s
4051	616:learn:	0.0164002	total:	5.13sremaining:	3.18s
4052	617:learn:	0.0163565	total:	5.14sremaining:	3.17s
4053	618:learn:	0.0163040	total:	5.14sremaining:	3.17s
4054	619:learn:	0.0162491	total:	5.15sremaining:	3.16s
4055	620:learn:	0.0162208	total:	5.16sremaining:	3.15s
4056	621:learn:	0.0161813	total:	5.17sremaining:	3.14s
4057	622:learn:	0.0161439	total:	5.18sremaining:	3.13s
4058	623:learn:	0.0161137	total:	5.19sremaining:	3.12s
4059	624:learn:	0.0160643	total:	5.19sremaining:	3.12s
4060	625:learn:	0.0160238	total:	5.2s remaining:	3.11s
4061	626:learn:	0.0159952	total:	5.21sremaining:	3.1s
4062	627:learn:	0.0159419	total:	5.22sremaining:	3.09s
4063	628:learn:	0.0158818	total:	5.22sremaining:	3.08s
4064	629:learn:	0.0158524	total:	5.23sremaining:	3.07s
4065	630:learn:	0.0157958	total:	5.24sremaining:	3.06s
4066	631:learn:	0.0157665	total:	5.25sremaining:	3.06s
4067	632:learn:	0.0157329	total:	5.26sremaining:	3.05s
4068	633:learn:	0.0156919	total:	5.26sremaining:	3.04s
4069	634:learn:	0.0156124	total:	5.27sremaining:	3.03s
4070	635:learn:	0.0155727	total:	5.28sremaining:	3.02s
4071	636:learn:	0.0155255	total:	5.29sremaining:	3.01s
4072	637:learn:	0.0154970	total:	5.3s remaining:	3.01s
4073	638:learn:	0.0154600	total:	5.31sremaining:	3s
4074	639:learn:	0.0154095	total:	5.32sremaining:	2.99s
4075	640:learn:	0.0153640	total:	5.32sremaining:	2.98s
4076	641:learn:	0.0153348	total:	5.33sremaining:	2.97s
4077	642:learn:	0.0152791	total:	5.34sremaining:	2.96s
4078	643:learn:	0.0152391	total:	5.35sremaining:	2.96s
4079	644:learn:	0.0151865	total:	5.36sremaining:	2.95s
4080	645:learn:	0.0151368	total:	5.37sremaining:	2.94s
4081	646:learn:	0.0150927	total:	5.37sremaining:	2.93s
4082	647:learn:	0.0150507	total:	5.38sremaining:	2.92s
4083	648:learn:	0.0150103	total:	5.39sremaining:	2.92s
4084	649:learn:	0.0149794	total:	5.4s remaining:	2.91s
4085	650:learn:	0.0149092	total:	5.41sremaining:	2.9s
4086	651:learn:	0.0148822	total:	5.41sremaining:	2.89s
4087	652:learn:	0.0148537	total:	5.42sremaining:	2.88s
4088	653:learn:	0.0148262	total:	5.43sremaining:	2.87s
4089	654:learn:	0.0148022	total:	5.44sremaining:	2.86s
4090	655:learn:	0.0147516	total:	5.45sremaining:	2.85s
4091	656:learn:	0.0146925	total:	5.45sremaining:	2.85s
4092	657:learn:	0.0146541	total:	5.46sremaining:	2.84s
4093	658:learn:	0.0146231	total:	5.47sremaining:	2.83s
4094	659:learn:	0.0145880	total:	5.48sremaining:	2.82s
4095	660:learn:	0.0145633	total:	5.49sremaining:	2.81s
4096	661:learn:	0.0145218	total:	5.49sremaining:	2.81s
4097	662:learn:	0.0144701	total:	5.5s remaining:	2.8s
4098	663:learn:	0.0143983	total:	5.51sremaining:	2.79s
4099	664:learn:	0.0143733	total:	5.52sremaining:	2.78s
4100	665:learn:	0.0143225	total:	5.53sremaining:	2.77s
4101	666:learn:	0.0142804	total:	5.54sremaining:	2.77s
4102	667:learn:	0.0142379	total:	5.55sremaining:	2.76s
4103	668:learn:	0.0142120	total:	5.56sremaining:	2.75s
4104	669:learn:	0.0141817	total:	5.57sremaining:	2.74s
4105	670:learn:	0.0141453	total:	5.58sremaining:	2.73s
4106	671:learn:	0.0141148	total:	5.58sremaining:	2.73s
4107	672:learn:	0.0140813	total:	5.59sremaining:	2.72s
4108	673:learn:	0.0140334	total:	5.6s remaining:	2.71s
4109	674:learn:	0.0139880	total:	5.61sremaining:	2.7s
4110	675:learn:	0.0139455	total:	5.62sremaining:	2.69s

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4111	676:learn:	0.0139259	total:	5.63sremaining:	2.68s
4112	677:learn:	0.0139040	total:	5.63sremaining:	2.67s
4113	678:learn:	0.0138622	total:	5.64sremaining:	2.67s
4114	679:learn:	0.0138250	total:	5.64sremaining:	2.66s
4115	680:learn:	0.0137658	total:	5.65sremaining:	2.65s
4116	681:learn:	0.0137436	total:	5.66sremaining:	2.64s
4117	682:learn:	0.0137108	total:	5.67sremaining:	2.63s
4118	683:learn:	0.0136840	total:	5.68sremaining:	2.62s
4119	684:learn:	0.0136482	total:	5.68sremaining:	2.61s
4120	685:learn:	0.0136122	total:	5.69sremaining:	2.61s
4121	686:learn:	0.0135806	total:	5.7s remaining:	2.6s
4122	687:learn:	0.0135564	total:	5.71sremaining:	2.59s
4123	688:learn:	0.0135222	total:	5.72sremaining:	2.58s
4124	689:learn:	0.0134921	total:	5.73sremaining:	2.57s
4125	690:learn:	0.0134611	total:	5.74sremaining:	2.56s
4126	691:learn:	0.0134175	total:	5.74sremaining:	2.56s
4127	692:learn:	0.0133979	total:	5.75sremaining:	2.55s
4128	693:learn:	0.0133515	total:	5.76sremaining:	2.54s
4129	694:learn:	0.0133243	total:	5.77sremaining:	2.53s
4130	695:learn:	0.0132882	total:	5.78sremaining:	2.52s
4131	696:learn:	0.0132548	total:	5.79sremaining:	2.52s
4132	697:learn:	0.0132088	total:	5.79sremaining:	2.51s
4133	698:learn:	0.0131836	total:	5.8s remaining:	2.5s
4134	699:learn:	0.0131600	total:	5.81sremaining:	2.49s
4135	700:learn:	0.0131238	total:	5.82sremaining:	2.48s
4136	701:learn:	0.0130945	total:	5.83sremaining:	2.47s
4137	702:learn:	0.0130521	total:	5.83sremaining:	2.46s
4138	703:learn:	0.0130230	total:	5.84sremaining:	2.46s
4139	704:learn:	0.0130016	total:	5.85sremaining:	2.45s
4140	705:learn:	0.0129538	total:	5.86sremaining:	2.44s
4141	706:learn:	0.0129338	total:	5.87sremaining:	2.43s
4142	707:learn:	0.0129022	total:	5.87sremaining:	2.42s
4143	708:learn:	0.0128602	total:	5.88sremaining:	2.41s
4144	709:learn:	0.0128183	total:	5.89sremaining:	2.41s
4145	710:learn:	0.0127768	total:	5.9s remaining:	2.4s
4146	711:learn:	0.0127374	total:	5.91sremaining:	2.39s
4147	712:learn:	0.0127122	total:	5.92sremaining:	2.38s
4148	713:learn:	0.0126939	total:	5.92sremaining:	2.37s
4149	714:learn:	0.0126371	total:	5.93sremaining:	2.37s
4150	715:learn:	0.0125818	total:	5.94sremaining:	2.36s
4151	716:learn:	0.0125620	total:	5.95sremaining:	2.35s
4152	717:learn:	0.0125252	total:	5.96sremaining:	2.34s
4153	718:learn:	0.0125022	total:	5.97sremaining:	2.33s
4154	719:learn:	0.0124781	total:	5.98sremaining:	2.32s
4155	720:learn:	0.0124329	total:	5.99sremaining:	2.32s
4156	721:learn:	0.0123989	total:	5.99sremaining:	2.31s
4157	722:learn:	0.0123794	total:	6s remaining:	2.3s
4158	723:learn:	0.0123521	total:	6.01sremaining:	2.29s
4159	724:learn:	0.0123275	total:	6.02sremaining:	2.28s
4160	725:learn:	0.0123074	total:	6.03sremaining:	2.27s
4161	726:learn:	0.0122896	total:	6.03sremaining:	2.27s
4162	727:learn:	0.0122517	total:	6.04sremaining:	2.26s
4163	728:learn:	0.0122332	total:	6.05sremaining:	2.25s
4164	729:learn:	0.0122102	total:	6.06sremaining:	2.24s
4165	730:learn:	0.0121851	total:	6.07sremaining:	2.23s
4166	731:learn:	0.0121508	total:	6.07sremaining:	2.22s
4167	732:learn:	0.0120983	total:	6.08sremaining:	2.21s
4168	733:learn:	0.0120589	total:	6.09sremaining:	2.21s
4169	734:learn:	0.0120433	total:	6.1s remaining:	2.2s
4170	735:learn:	0.0120133	total:	6.11sremaining:	2.19s
4171	736:learn:	0.0119891	total:	6.12sremaining:	2.18s
4172	737:learn:	0.0119706	total:	6.12sremaining:	2.17s
4173	738:learn:	0.0119531	total:	6.13sremaining:	2.17s
4174	739:learn:	0.0119374	total:	6.14sremaining:	2.16s
4175	740:learn:	0.0119158	total:	6.15sremaining:	2.15s
4176	741:learn:	0.0118919	total:	6.16sremaining:	2.14s
4177	742:learn:	0.0118697	total:	6.17sremaining:	2.13s
4178	743:learn:	0.0118140	total:	6.17sremaining:	2.12s
4179	744:learn:	0.0117915	total:	6.18sremaining:	2.12s
4180	745:learn:	0.0117746	total:	6.19sremaining:	2.11s
4181	746:learn:	0.0117490	total:	6.2s remaining:	2.1s

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4182	747:learn:	0.0117279	total:	6.2s	remaining:	2.09s
4183	748:learn:	0.0116847	total:	6.21s	remaining:	2.08s
4184	749:learn:	0.0116683	total:	6.22s	remaining:	2.07s
4185	750:learn:	0.0116487	total:	6.23s	remaining:	2.06s
4186	751:learn:	0.0116256	total:	6.24s	remaining:	2.06s
4187	752:learn:	0.0116120	total:	6.24s	remaining:	2.05s
4188	753:learn:	0.0115875	total:	6.25s	remaining:	2.04s
4189	754:learn:	0.0115690	total:	6.26s	remaining:	2.03s
4190	755:learn:	0.0115458	total:	6.27s	remaining:	2.02s
4191	756:learn:	0.0115188	total:	6.27s	remaining:	2.01s
4192	757:learn:	0.0114847	total:	6.28s	remaining:	2s
4193	758:learn:	0.0114637	total:	6.29s	remaining:	2s
4194	759:learn:	0.0114395	total:	6.3s	remaining:	1.99s
4195	760:learn:	0.0114097	total:	6.31s	remaining:	1.98s
4196	761:learn:	0.0113877	total:	6.32s	remaining:	1.97s
4197	762:learn:	0.0113704	total:	6.32s	remaining:	1.96s
4198	763:learn:	0.0113482	total:	6.33s	remaining:	1.96s
4199	764:learn:	0.0113297	total:	6.34s	remaining:	1.95s
4200	765:learn:	0.0112992	total:	6.35s	remaining:	1.94s
4201	766:learn:	0.0112726	total:	6.36s	remaining:	1.93s
4202	767:learn:	0.0112563	total:	6.37s	remaining:	1.92s
4203	768:learn:	0.0112284	total:	6.37s	remaining:	1.91s
4204	769:learn:	0.0111647	total:	6.38s	remaining:	1.91s
4205	770:learn:	0.0111492	total:	6.39s	remaining:	1.9s
4206	771:learn:	0.0111285	total:	6.41s	remaining:	1.89s
4207	772:learn:	0.0111110	total:	6.42s	remaining:	1.88s
4208	773:learn:	0.0110737	total:	6.42s	remaining:	1.88s
4209	774:learn:	0.0110515	total:	6.43s	remaining:	1.87s
4210	775:learn:	0.0110248	total:	6.44s	remaining:	1.86s
4211	776:learn:	0.0110011	total:	6.45s	remaining:	1.85s
4212	777:learn:	0.0109845	total:	6.45s	remaining:	1.84s
4213	778:learn:	0.0109604	total:	6.46s	remaining:	1.83s
4214	779:learn:	0.0109346	total:	6.47s	remaining:	1.82s
4215	780:learn:	0.0109118	total:	6.48s	remaining:	1.82s
4216	781:learn:	0.0108805	total:	6.48s	remaining:	1.81s
4217	782:learn:	0.0108522	total:	6.49s	remaining:	1.8s
4218	783:learn:	0.0108251	total:	6.5s	remaining:	1.79s
4219	784:learn:	0.0108044	total:	6.51s	remaining:	1.78s
4220	785:learn:	0.0107844	total:	6.52s	remaining:	1.77s
4221	786:learn:	0.0107582	total:	6.53s	remaining:	1.77s
4222	787:learn:	0.0107436	total:	6.54s	remaining:	1.76s
4223	788:learn:	0.0107298	total:	6.54s	remaining:	1.75s
4224	789:learn:	0.0107107	total:	6.55s	remaining:	1.74s
4225	790:learn:	0.0106915	total:	6.56s	remaining:	1.73s
4226	791:learn:	0.0106749	total:	6.57s	remaining:	1.73s
4227	792:learn:	0.0106493	total:	6.58s	remaining:	1.72s
4228	793:learn:	0.0106275	total:	6.59s	remaining:	1.71s
4229	794:learn:	0.0106063	total:	6.6s	remaining:	1.7s
4230	795:learn:	0.0105860	total:	6.61s	remaining:	1.69s
4231	796:learn:	0.0105695	total:	6.62s	remaining:	1.69s
4232	797:learn:	0.0105472	total:	6.63s	remaining:	1.68s
4233	798:learn:	0.0105350	total:	6.63s	remaining:	1.67s
4234	799:learn:	0.0105097	total:	6.64s	remaining:	1.66s
4235	800:learn:	0.0104980	total:	6.65s	remaining:	1.65s
4236	801:learn:	0.0104756	total:	6.66s	remaining:	1.64s
4237	802:learn:	0.0104535	total:	6.67s	remaining:	1.64s
4238	803:learn:	0.0104354	total:	6.67s	remaining:	1.63s
4239	804:learn:	0.0104140	total:	6.68s	remaining:	1.62s
4240	805:learn:	0.0103988	total:	6.69s	remaining:	1.61s
4241	806:learn:	0.0103802	total:	6.7s	remaining:	1.6s
4242	807:learn:	0.0103550	total:	6.71s	remaining:	1.59s
4243	808:learn:	0.0103319	total:	6.71s	remaining:	1.58s
4244	809:learn:	0.0102970	total:	6.72s	remaining:	1.58s
4245	810:learn:	0.0102619	total:	6.73s	remaining:	1.57s
4246	811:learn:	0.0102333	total:	6.74s	remaining:	1.56s
4247	812:learn:	0.0102120	total:	6.75s	remaining:	1.55s
4248	813:learn:	0.0101921	total:	6.76s	remaining:	1.54s
4249	814:learn:	0.0101710	total:	6.77s	remaining:	1.53s
4250	815:learn:	0.0101396	total:	6.78s	remaining:	1.53s
4251	816:learn:	0.0101041	total:	6.78s	remaining:	1.52s
4252	817:learn:	0.0100856	total:	6.79s	remaining:	1.51s

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4253	818:learn:	0.0100689	total:	6.8s	remaining:	1.5s
4254	819:learn:	0.0100498	total:	6.81s	remaining:	1.49s
4255	820:learn:	0.0100262	total:	6.82s	remaining:	1.49s
4256	821:learn:	0.0100070	total:	6.82s	remaining:	1.48s
4257	822:learn:	0.0099916	total:	6.83s	remaining:	1.47s
4258	823:learn:	0.0099777	total:	6.84s	remaining:	1.46s
4259	824:learn:	0.0099546	total:	6.85s	remaining:	1.45s
4260	825:learn:	0.0099234	total:	6.86s	remaining:	1.44s
4261	826:learn:	0.0099013	total:	6.86s	remaining:	1.44s
4262	827:learn:	0.0098865	total:	6.87s	remaining:	1.43s
4263	828:learn:	0.0098686	total:	6.88s	remaining:	1.42s
4264	829:learn:	0.0098491	total:	6.89s	remaining:	1.41s
4265	830:learn:	0.0098348	total:	6.89s	remaining:	1.4s
4266	831:learn:	0.0097992	total:	6.9s	remaining:	1.39s
4267	832:learn:	0.0097844	total:	6.91s	remaining:	1.39s
4268	833:learn:	0.0097633	total:	6.92s	remaining:	1.38s
4269	834:learn:	0.0097447	total:	6.93s	remaining:	1.37s
4270	835:learn:	0.0097301	total:	6.94s	remaining:	1.36s
4271	836:learn:	0.0097120	total:	6.95s	remaining:	1.35s
4272	837:learn:	0.0096980	total:	6.95s	remaining:	1.34s
4273	838:learn:	0.0096850	total:	6.96s	remaining:	1.34s
4274	839:learn:	0.0096731	total:	6.97s	remaining:	1.33s
4275	840:learn:	0.0096514	total:	6.98s	remaining:	1.32s
4276	841:learn:	0.0096370	total:	6.99s	remaining:	1.31s
4277	842:learn:	0.0096221	total:	7s	remaining:	1.3s
4278	843:learn:	0.0096014	total:	7s	remaining:	1.29s
4279	844:learn:	0.0095821	total:	7.01s	remaining:	1.29s
4280	845:learn:	0.0095624	total:	7.02s	remaining:	1.28s
4281	846:learn:	0.0095506	total:	7.03s	remaining:	1.27s
4282	847:learn:	0.0095287	total:	7.04s	remaining:	1.26s
4283	848:learn:	0.0094989	total:	7.04s	remaining:	1.25s
4284	849:learn:	0.0094856	total:	7.06s	remaining:	1.25s
4285	850:learn:	0.0094726	total:	7.07s	remaining:	1.24s
4286	851:learn:	0.0094476	total:	7.08s	remaining:	1.23s
4287	852:learn:	0.0094331	total:	7.09s	remaining:	1.22s
4288	853:learn:	0.0094208	total:	7.1s	remaining:	1.21s
4289	854:learn:	0.0094109	total:	7.1s	remaining:	1.2s
4290	855:learn:	0.0093904	total:	7.11s	remaining:	1.2s
4291	856:learn:	0.0093689	total:	7.12s	remaining:	1.19s
4292	857:learn:	0.0093403	total:	7.13s	remaining:	1.18s
4293	858:learn:	0.0093271	total:	7.14s	remaining:	1.17s
4294	859:learn:	0.0093144	total:	7.15s	remaining:	1.16s
4295	860:learn:	0.0092917	total:	7.15s	remaining:	1.16s
4296	861:learn:	0.0092725	total:	7.16s	remaining:	1.15s
4297	862:learn:	0.0092637	total:	7.17s	remaining:	1.14s
4298	863:learn:	0.0092473	total:	7.18s	remaining:	1.13s
4299	864:learn:	0.0092369	total:	7.19s	remaining:	1.12s
4300	865:learn:	0.0092221	total:	7.2s	remaining:	1.11s
4301	866:learn:	0.0092111	total:	7.2s	remaining:	1.1s
4302	867:learn:	0.0091867	total:	7.21s	remaining:	1.1s
4303	868:learn:	0.0091732	total:	7.22s	remaining:	1.09s
4304	869:learn:	0.0091614	total:	7.23s	remaining:	1.08s
4305	870:learn:	0.0091426	total:	7.24s	remaining:	1.07s
4306	871:learn:	0.0091286	total:	7.24s	remaining:	1.06s
4307	872:learn:	0.0091134	total:	7.25s	remaining:	1.05s
4308	873:learn:	0.0091031	total:	7.26s	remaining:	1.05s
4309	874:learn:	0.0090913	total:	7.27s	remaining:	1.04s
4310	875:learn:	0.0090709	total:	7.28s	remaining:	1.03s
4311	876:learn:	0.0090569	total:	7.28s	remaining:	1.02s
4312	877:learn:	0.0090459	total:	7.29s	remaining:	1.01s
4313	878:learn:	0.0090370	total:	7.3s	remaining:	1s
4314	879:learn:	0.0090228	total:	7.31s	remaining:	997ms
4315	880:learn:	0.0090019	total:	7.32s	remaining:	988ms
4316	881:learn:	0.0089869	total:	7.33s	remaining:	980ms
4317	882:learn:	0.0089744	total:	7.33s	remaining:	972ms
4318	883:learn:	0.0089537	total:	7.34s	remaining:	963ms
4319	884:learn:	0.0089360	total:	7.35s	remaining:	955ms
4320	885:learn:	0.0089240	total:	7.36s	remaining:	947ms
4321	886:learn:	0.0089059	total:	7.37s	remaining:	939ms
4322	887:learn:	0.0088918	total:	7.38s	remaining:	931ms
4323	888:learn:	0.0088736	total:	7.39s	remaining:	922ms

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4324	889:learn:	0.0088554	total:	7.39s	remaining:	914ms
4325	890:learn:	0.0088433	total:	7.4s	remaining:	906ms
4326	891:learn:	0.0088289	total:	7.41s	remaining:	898ms
4327	892:learn:	0.0088174	total:	7.42s	remaining:	889ms
4328	893:learn:	0.0088040	total:	7.43s	remaining:	881ms
4329	894:learn:	0.0087879	total:	7.44s	remaining:	873ms
4330	895:learn:	0.0087688	total:	7.45s	remaining:	864ms
4331	896:learn:	0.0087552	total:	7.46s	remaining:	856ms
4332	897:learn:	0.0087197	total:	7.46s	remaining:	848ms
4333	898:learn:	0.0087092	total:	7.47s	remaining:	840ms
4334	899:learn:	0.0086997	total:	7.48s	remaining:	831ms
4335	900:learn:	0.0086784	total:	7.49s	remaining:	823ms
4336	901:learn:	0.0086636	total:	7.5s	remaining:	815ms
4337	902:learn:	0.0086523	total:	7.51s	remaining:	807ms
4338	903:learn:	0.0086403	total:	7.52s	remaining:	798ms
4339	904:learn:	0.0086298	total:	7.53s	remaining:	790ms
4340	905:learn:	0.0086129	total:	7.54s	remaining:	782ms
4341	906:learn:	0.0085911	total:	7.54s	remaining:	774ms
4342	907:learn:	0.0085778	total:	7.55s	remaining:	765ms
4343	908:learn:	0.0085663	total:	7.56s	remaining:	757ms
4344	909:learn:	0.0085476	total:	7.57s	remaining:	749ms
4345	910:learn:	0.0085337	total:	7.58s	remaining:	741ms
4346	911:learn:	0.0085196	total:	7.59s	remaining:	732ms
4347	912:learn:	0.0085074	total:	7.6s	remaining:	724ms
4348	913:learn:	0.0084966	total:	7.61s	remaining:	716ms
4349	914:learn:	0.0084846	total:	7.62s	remaining:	707ms
4350	915:learn:	0.0084766	total:	7.62s	remaining:	699ms
4351	916:learn:	0.0084638	total:	7.63s	remaining:	691ms
4352	917:learn:	0.0084312	total:	7.64s	remaining:	683ms
4353	918:learn:	0.0084177	total:	7.65s	remaining:	674ms
4354	919:learn:	0.0084070	total:	7.66s	remaining:	666ms
4355	920:learn:	0.0083983	total:	7.67s	remaining:	658ms
4356	921:learn:	0.0083808	total:	7.68s	remaining:	650ms
4357	922:learn:	0.0083636	total:	7.69s	remaining:	641ms
4358	923:learn:	0.0083518	total:	7.69s	remaining:	633ms
4359	924:learn:	0.0083426	total:	7.7s	remaining:	625ms
4360	925:learn:	0.0083309	total:	7.72s	remaining:	617ms
4361	926:learn:	0.0083076	total:	7.73s	remaining:	609ms
4362	927:learn:	0.0082978	total:	7.74s	remaining:	601ms
4363	928:learn:	0.0082876	total:	7.75s	remaining:	592ms
4364	929:learn:	0.0082740	total:	7.76s	remaining:	584ms
4365	930:learn:	0.0082647	total:	7.77s	remaining:	576ms
4366	931:learn:	0.0082441	total:	7.78s	remaining:	567ms
4367	932:learn:	0.0082340	total:	7.78s	remaining:	559ms
4368	933:learn:	0.0082233	total:	7.79s	remaining:	551ms
4369	934:learn:	0.0082083	total:	7.8s	remaining:	542ms
4370	935:learn:	0.0081983	total:	7.81s	remaining:	534ms
4371	936:learn:	0.0081882	total:	7.82s	remaining:	526ms
4372	937:learn:	0.0081724	total:	7.83s	remaining:	517ms
4373	938:learn:	0.0081640	total:	7.83s	remaining:	509ms
4374	939:learn:	0.0081543	total:	7.86s	remaining:	501ms
4375	940:learn:	0.0081428	total:	7.86s	remaining:	493ms
4376	941:learn:	0.0081320	total:	7.87s	remaining:	485ms
4377	942:learn:	0.0081116	total:	7.88s	remaining:	476ms
4378	943:learn:	0.0081020	total:	7.89s	remaining:	468ms
4379	944:learn:	0.0080901	total:	7.89s	remaining:	460ms
4380	945:learn:	0.0080788	total:	7.9s	remaining:	451ms
4381	946:learn:	0.0080698	total:	7.91s	remaining:	443ms
4382	947:learn:	0.0080621	total:	7.92s	remaining:	434ms
4383	948:learn:	0.0080531	total:	7.93s	remaining:	426ms
4384	949:learn:	0.0080435	total:	7.94s	remaining:	418ms
4385	950:learn:	0.0080355	total:	7.95s	remaining:	410ms
4386	951:learn:	0.0080232	total:	7.96s	remaining:	401ms
4387	952:learn:	0.0080118	total:	7.96s	remaining:	393ms
4388	953:learn:	0.0080006	total:	7.97s	remaining:	385ms
4389	954:learn:	0.0079891	total:	7.98s	remaining:	376ms
4390	955:learn:	0.0079624	total:	7.99s	remaining:	368ms
4391	956:learn:	0.0079490	total:	8s	remaining:	359ms
4392	957:learn:	0.0079373	total:	8.01s	remaining:	351ms
4393	958:learn:	0.0079219	total:	8.02s	remaining:	343ms
4394	959:learn:	0.0079045	total:	8.02s	remaining:	334ms

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4395 960:learn: 0.0078946 total: 8.03sremaining: 326ms
4396 961:learn: 0.0078760 total: 8.04sremaining: 318ms
4397 962:learn: 0.0078520 total: 8.05sremaining: 309ms
4398 963:learn: 0.0078430 total: 8.06sremaining: 301ms
4399 964:learn: 0.0078356 total: 8.07sremaining: 293ms
4400 965:learn: 0.0078212 total: 8.07sremaining: 284ms
4401 966:learn: 0.0078120 total: 8.08sremaining: 276ms
4402 967:learn: 0.0078021 total: 8.09sremaining: 268ms
4403 968:learn: 0.0077904 total: 8.1s remaining: 259ms
4404 969:learn: 0.0077834 total: 8.11sremaining: 251ms
4405 970:learn: 0.0077715 total: 8.12sremaining: 242ms
4406 971:learn: 0.0077615 total: 8.13sremaining: 234ms
4407 972:learn: 0.0077503 total: 8.13sremaining: 226ms
4408 973:learn: 0.0077410 total: 8.14sremaining: 217ms
4409 974:learn: 0.0077331 total: 8.15sremaining: 209ms
4410 975:learn: 0.0077200 total: 8.16sremaining: 201ms
4411 976:learn: 0.0077091 total: 8.17sremaining: 192ms
4412 977:learn: 0.0077014 total: 8.18sremaining: 184ms
4413 978:learn: 0.0076920 total: 8.19sremaining: 176ms
4414 979:learn: 0.0076800 total: 8.2s remaining: 167ms
4415 980:learn: 0.0076628 total: 8.2s remaining: 159ms
4416 981:learn: 0.0076531 total: 8.21sremaining: 151ms
4417 982:learn: 0.0076469 total: 8.22sremaining: 142ms
4418 983:learn: 0.0076392 total: 8.23sremaining: 134ms
4419 984:learn: 0.0076257 total: 8.24sremaining: 125ms
4420 985:learn: 0.0076121 total: 8.24sremaining: 117ms
4421 986:learn: 0.0076037 total: 8.25sremaining: 109ms
4422 987:learn: 0.0075897 total: 8.26sremaining: 100ms
4423 988:learn: 0.0075777 total: 8.27sremaining: 92ms
4424 989:learn: 0.0075663 total: 8.28sremaining: 83.6ms
4425 990:learn: 0.0075547 total: 8.28sremaining: 75.2ms
4426 991:learn: 0.0075456 total: 8.29sremaining: 66.9ms
4427 992:learn: 0.0075373 total: 8.3s remaining: 58.5ms
4428 993:learn: 0.0075264 total: 8.31sremaining: 50.1ms
4429 994:learn: 0.0075113 total: 8.32sremaining: 41.8ms
4430 995:learn: 0.0074990 total: 8.32sremaining: 33.4ms
4431 996:learn: 0.0074901 total: 8.33sremaining: 25.1ms
4432 997:learn: 0.0074807 total: 8.34sremaining: 16.7ms
4433 998:learn: 0.0074708 total: 8.35sremaining: 8.36ms
4434 999:learn: 0.0074610 total: 8.36sremaining: 0us
4435 current noise type: None
4436 {'Samples': 1456, 'Features': 12, 'Anomalies': 50, 'Anomalies Ratio(%)': 3.43}
4437 Evaluating on dataset: 40_vowels
4438 X_train shape: (72, 12)
4439 X_test shape: (1384, 12)
4440 Training size: 72, No. outliers: 1
4441 Epoch 1/50
4442 20/20 [=====] - 1s 5ms/step - loss: 2.5080
4443 Epoch 2/50
4444 20/20 [=====] - 0s 5ms/step - loss: 2.4042
4445 Epoch 3/50
4446 20/20 [=====] - 0s 5ms/step - loss: 2.3160
4447 Epoch 4/50
4448 20/20 [=====] - 0s 5ms/step - loss: 2.2275
4449 Epoch 5/50
4450 20/20 [=====] - 0s 5ms/step - loss: 2.1347
4451 Epoch 6/50
4452 20/20 [=====] - 0s 5ms/step - loss: 2.0363
4453 Epoch 7/50
4454 20/20 [=====] - 0s 5ms/step - loss: 1.9324
4455 Epoch 8/50
4456 20/20 [=====] - 0s 5ms/step - loss: 1.8194
4457 Epoch 9/50
4458 20/20 [=====] - 0s 5ms/step - loss: 1.6935
4459 Epoch 10/50
4460 20/20 [=====] - 0s 5ms/step - loss: 1.5528
4461 Epoch 11/50
4462 20/20 [=====] - 0s 5ms/step - loss: 1.4178
4463 Epoch 12/50
4464 20/20 [=====] - 0s 5ms/step - loss: 1.2639
4465 Epoch 13/50
```

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4466	20/20	[=====]	- 0s	5ms/step	- loss: 1.1002
4467	Epoch	14/50			
4468	20/20	[=====]	- 0s	5ms/step	- loss: 0.9872
4469	Epoch	15/50			
4470	20/20	[=====]	- 0s	5ms/step	- loss: 0.9021
4471	Epoch	16/50			
4472	20/20	[=====]	- 0s	5ms/step	- loss: 0.8202
4473	Epoch	17/50			
4474	20/20	[=====]	- 0s	5ms/step	- loss: 0.7809
4475	Epoch	18/50			
4476	20/20	[=====]	- 0s	5ms/step	- loss: 0.7360
4477	Epoch	19/50			
4478	20/20	[=====]	- 0s	5ms/step	- loss: 0.7050
4479	Epoch	20/50			
4480	20/20	[=====]	- 0s	5ms/step	- loss: 0.6982
4481	Epoch	21/50			
4482	20/20	[=====]	- 0s	5ms/step	- loss: 0.6784
4483	Epoch	22/50			
4484	20/20	[=====]	- 0s	5ms/step	- loss: 0.6592
4485	Epoch	23/50			
4486	20/20	[=====]	- 0s	5ms/step	- loss: 0.6633
4487	Epoch	24/50			
4488	20/20	[=====]	- 0s	5ms/step	- loss: 0.6479
4489	Epoch	25/50			
4490	20/20	[=====]	- 0s	5ms/step	- loss: 0.6401
4491	Epoch	26/50			
4492	20/20	[=====]	- 0s	5ms/step	- loss: 0.6233
4493	Epoch	27/50			
4494	20/20	[=====]	- 0s	5ms/step	- loss: 0.6019
4495	Epoch	28/50			
4496	20/20	[=====]	- 0s	5ms/step	- loss: 0.5893
4497	Epoch	29/50			
4498	20/20	[=====]	- 0s	5ms/step	- loss: 0.5733
4499	Epoch	30/50			
4500	20/20	[=====]	- 0s	5ms/step	- loss: 0.5581
4501	Epoch	31/50			
4502	20/20	[=====]	- 0s	5ms/step	- loss: 0.5519
4503	Epoch	32/50			
4504	20/20	[=====]	- 0s	5ms/step	- loss: 0.5356
4505	Epoch	33/50			
4506	20/20	[=====]	- 0s	5ms/step	- loss: 0.5262
4507	Epoch	34/50			
4508	20/20	[=====]	- 0s	5ms/step	- loss: 0.5094
4509	Epoch	35/50			
4510	20/20	[=====]	- 0s	5ms/step	- loss: 0.5102
4511	Epoch	36/50			
4512	20/20	[=====]	- 0s	5ms/step	- loss: 0.4945
4513	Epoch	37/50			
4514	20/20	[=====]	- 0s	5ms/step	- loss: 0.4991
4515	Epoch	38/50			
4516	20/20	[=====]	- 0s	5ms/step	- loss: 0.4783
4517	Epoch	39/50			
4518	20/20	[=====]	- 0s	5ms/step	- loss: 0.4811
4519	Epoch	40/50			
4520	20/20	[=====]	- 0s	5ms/step	- loss: 0.4654
4521	Epoch	41/50			
4522	20/20	[=====]	- 0s	5ms/step	- loss: 0.4620
4523	Epoch	42/50			
4524	20/20	[=====]	- 0s	5ms/step	- loss: 0.4595
4525	Epoch	43/50			
4526	20/20	[=====]	- 0s	5ms/step	- loss: 0.4446
4527	Epoch	44/50			
4528	20/20	[=====]	- 0s	5ms/step	- loss: 0.4396
4529	Epoch	45/50			
4530	20/20	[=====]	- 0s	5ms/step	- loss: 0.4431
4531	Epoch	46/50			
4532	20/20	[=====]	- 0s	5ms/step	- loss: 0.4309
4533	Epoch	47/50			
4534	20/20	[=====]	- 0s	5ms/step	- loss: 0.4244
4535	Epoch	48/50			
4536	20/20	[=====]	- 0s	5ms/step	- loss: 0.4178

demo

```
4537 Epoch 49/50
4538 20/20 [=====] - 0s 5ms/step - loss: 0.4218
4539 Epoch 50/50
4540 20/20 [=====] - 0s 5ms/step - loss: 0.4050
4541 Learning rate set to 0.00335
4542 0: learn: 0.6882111 total: 905usremaining: 905ms
4543 1: learn: 0.6840884 total: 2.12ms remaining: 1.06s
4544 2: learn: 0.6802672 total: 3.57ms remaining: 1.19s
4545 3: learn: 0.6770763 total: 4.95ms remaining: 1.23s
4546 4: learn: 0.6728028 total: 6.37ms remaining: 1.27s
4547 5: learn: 0.6687877 total: 7.8msremaining: 1.29s
4548 6: learn: 0.6648746 total: 8.53ms remaining: 1.21s
4549 7: learn: 0.6605655 total: 9.2msremaining: 1.14s
4550 8: learn: 0.6558391 total: 9.92ms remaining: 1.09s
4551 9: learn: 0.6519245 total: 10.6ms remaining: 1.04s
4552 10: learn: 0.6477317 total: 11.2ms remaining: 1s
4553 11: learn: 0.6441485 total: 11.9ms remaining: 978ms
4554 12: learn: 0.6404916 total: 12.7ms remaining: 961ms
4555 13: learn: 0.6365401 total: 13.3ms remaining: 939ms
4556 14: learn: 0.6319674 total: 14ms remaining: 917ms
4557 15: learn: 0.6280499 total: 14.7ms remaining: 902ms
4558 16: learn: 0.6237507 total: 15.4ms remaining: 890ms
4559 17: learn: 0.6191627 total: 16.2ms remaining: 881ms
4560 18: learn: 0.6153626 total: 16.9ms remaining: 870ms
4561 19: learn: 0.6115697 total: 17.5ms remaining: 857ms
4562 20: learn: 0.6077420 total: 18.3ms remaining: 852ms
4563 21: learn: 0.6041682 total: 19ms remaining: 843ms
4564 22: learn: 0.5994644 total: 19.6ms remaining: 835ms
4565 23: learn: 0.5950945 total: 20.3ms remaining: 827ms
4566 24: learn: 0.5915232 total: 21.1ms remaining: 823ms
4567 25: learn: 0.5883907 total: 21.9ms remaining: 819ms
4568 26: learn: 0.5847345 total: 22.5ms remaining: 812ms
4569 27: learn: 0.5802980 total: 23.2ms remaining: 806ms
4570 28: learn: 0.5768318 total: 23.9ms remaining: 800ms
4571 29: learn: 0.5730685 total: 24.7ms remaining: 799ms
4572 30: learn: 0.5691217 total: 25.7ms remaining: 802ms
4573 31: learn: 0.5655037 total: 26.4ms remaining: 798ms
4574 32: learn: 0.5614198 total: 27.1ms remaining: 794ms
4575 33: learn: 0.5582116 total: 27.7ms remaining: 788ms
4576 34: learn: 0.5546202 total: 28.4ms remaining: 782ms
4577 35: learn: 0.5506598 total: 29.1ms remaining: 778ms
4578 36: learn: 0.5474431 total: 29.8ms remaining: 776ms
4579 37: learn: 0.5443160 total: 30.6ms remaining: 774ms
4580 38: learn: 0.5404866 total: 31.4ms remaining: 773ms
4581 39: learn: 0.5372313 total: 32.2ms remaining: 773ms
4582 40: learn: 0.5339664 total: 32.9ms remaining: 769ms
4583 41: learn: 0.5310470 total: 33.6ms remaining: 767ms
4584 42: learn: 0.5280563 total: 34.3ms remaining: 764ms
4585 43: learn: 0.5247675 total: 35.2ms remaining: 764ms
4586 44: learn: 0.5211947 total: 35.9ms remaining: 762ms
4587 45: learn: 0.5172832 total: 36.6ms remaining: 759ms
4588 46: learn: 0.5142031 total: 37.3ms remaining: 757ms
4589 47: learn: 0.5109155 total: 38.1ms remaining: 756ms
4590 48: learn: 0.5082390 total: 38.8ms remaining: 754ms
4591 49: learn: 0.5055073 total: 39.5ms remaining: 751ms
4592 50: learn: 0.5028993 total: 40.2ms remaining: 748ms
4593 51: learn: 0.5003841 total: 40.9ms remaining: 746ms
4594 52: learn: 0.4965732 total: 41.7ms remaining: 745ms
4595 53: learn: 0.4938282 total: 42.3ms remaining: 742ms
4596 54: learn: 0.4909827 total: 43ms remaining: 740ms
4597 55: learn: 0.4882780 total: 43.7ms remaining: 737ms
4598 56: learn: 0.4859743 total: 44.6ms remaining: 738ms
4599 57: learn: 0.4834016 total: 45.5ms remaining: 740ms
4600 58: learn: 0.4803224 total: 46.3ms remaining: 738ms
4601 59: learn: 0.4770527 total: 47ms remaining: 736ms
4602 60: learn: 0.4742338 total: 47.6ms remaining: 733ms
4603 61: learn: 0.4717504 total: 48.4ms remaining: 732ms
4604 62: learn: 0.4695209 total: 49.1ms remaining: 731ms
4605 63: learn: 0.4663982 total: 49.8ms remaining: 729ms
4606 64: learn: 0.4640760 total: 50.5ms remaining: 727ms
4607 65: learn: 0.4619400 total: 51.2ms remaining: 725ms
```

demo

4608	66:	learn:	0.4591984	total:	52ms	remaining:	724ms
4609	67:	learn:	0.4560273	total:	52.8ms	remaining:	724ms
4610	68:	learn:	0.4536760	total:	53.6ms	remaining:	724ms
4611	69:	learn:	0.4511977	total:	54.4ms	remaining:	723ms
4612	70:	learn:	0.4479086	total:	55.2ms	remaining:	722ms
4613	71:	learn:	0.4454958	total:	55.9ms	remaining:	720ms
4614	72:	learn:	0.4430715	total:	56.6ms	remaining:	719ms
4615	73:	learn:	0.4407864	total:	57.5ms	remaining:	719ms
4616	74:	learn:	0.4377327	total:	58.3ms	remaining:	719ms
4617	75:	learn:	0.4349554	total:	58.9ms	remaining:	717ms
4618	76:	learn:	0.4317382	total:	59.7ms	remaining:	716ms
4619	77:	learn:	0.4294680	total:	60.4ms	remaining:	714ms
4620	78:	learn:	0.4268029	total:	61.2ms	remaining:	714ms
4621	79:	learn:	0.4237064	total:	62ms	remaining:	713ms
4622	80:	learn:	0.4209983	total:	62.8ms	remaining:	713ms
4623	81:	learn:	0.4182811	total:	63.5ms	remaining:	710ms
4624	82:	learn:	0.4155023	total:	64.2ms	remaining:	710ms
4625	83:	learn:	0.4133836	total:	65ms	remaining:	709ms
4626	84:	learn:	0.4112624	total:	65.7ms	remaining:	707ms
4627	85:	learn:	0.4089405	total:	66.3ms	remaining:	705ms
4628	86:	learn:	0.4064255	total:	67.1ms	remaining:	705ms
4629	87:	learn:	0.4044329	total:	68ms	remaining:	704ms
4630	88:	learn:	0.4021727	total:	68.7ms	remaining:	704ms
4631	89:	learn:	0.3997015	total:	69.4ms	remaining:	702ms
4632	90:	learn:	0.3971229	total:	70.2ms	remaining:	701ms
4633	91:	learn:	0.3943765	total:	70.7ms	remaining:	698ms
4634	92:	learn:	0.3920222	total:	71.4ms	remaining:	697ms
4635	93:	learn:	0.3902660	total:	72.2ms	remaining:	696ms
4636	94:	learn:	0.3883515	total:	73.1ms	remaining:	696ms
4637	95:	learn:	0.3863981	total:	73.9ms	remaining:	695ms
4638	96:	learn:	0.3840054	total:	74.6ms	remaining:	694ms
4639	97:	learn:	0.3820063	total:	75.4ms	remaining:	694ms
4640	98:	learn:	0.3797355	total:	76.2ms	remaining:	693ms
4641	99:	learn:	0.3770943	total:	77ms	remaining:	693ms
4642	100:	learn:	0.3748636	total:	77.7ms	remaining:	692ms
4643	101:	learn:	0.3730366	total:	78.4ms	remaining:	690ms
4644	102:	learn:	0.3710053	total:	79.1ms	remaining:	689ms
4645	103:	learn:	0.3693911	total:	79.8ms	remaining:	687ms
4646	104:	learn:	0.3672763	total:	80.5ms	remaining:	686ms
4647	105:	learn:	0.3647947	total:	81.4ms	remaining:	686ms
4648	106:	learn:	0.3618041	total:	81.9ms	remaining:	684ms
4649	107:	learn:	0.3594376	total:	82.9ms	remaining:	685ms
4650	108:	learn:	0.3577805	total:	83.8ms	remaining:	685ms
4651	109:	learn:	0.3558793	total:	84.5ms	remaining:	684ms
4652	110:	learn:	0.3542490	total:	85.4ms	remaining:	684ms
4653	111:	learn:	0.3521490	total:	86.1ms	remaining:	683ms
4654	112:	learn:	0.3501090	total:	86.8ms	remaining:	681ms
4655	113:	learn:	0.3483161	total:	87.7ms	remaining:	682ms
4656	114:	learn:	0.3464455	total:	88.5ms	remaining:	681ms
4657	115:	learn:	0.3445581	total:	89.1ms	remaining:	679ms
4658	116:	learn:	0.3428988	total:	89.8ms	remaining:	678ms
4659	117:	learn:	0.3412231	total:	90.6ms	remaining:	677ms
4660	118:	learn:	0.3393736	total:	91.2ms	remaining:	675ms
4661	119:	learn:	0.3369697	total:	91.9ms	remaining:	674ms
4662	120:	learn:	0.3346817	total:	92.6ms	remaining:	672ms
4663	121:	learn:	0.3330284	total:	93.2ms	remaining:	671ms
4664	122:	learn:	0.3313950	total:	93.9ms	remaining:	669ms
4665	123:	learn:	0.3291523	total:	94.6ms	remaining:	669ms
4666	124:	learn:	0.3274938	total:	95.4ms	remaining:	668ms
4667	125:	learn:	0.3257211	total:	96.1ms	remaining:	667ms
4668	126:	learn:	0.3237628	total:	96.9ms	remaining:	666ms
4669	127:	learn:	0.3221247	total:	97.8ms	remaining:	666ms
4670	128:	learn:	0.3207059	total:	98.6ms	remaining:	666ms
4671	129:	learn:	0.3189147	total:	99.4ms	remaining:	665ms
4672	130:	learn:	0.3172378	total:	100ms	remaining:	664ms
4673	131:	learn:	0.3155707	total:	101ms	remaining:	663ms
4674	132:	learn:	0.3138378	total:	102ms	remaining:	662ms
4675	133:	learn:	0.3123413	total:	102ms	remaining:	662ms
4676	134:	learn:	0.3105468	total:	103ms	remaining:	661ms
4677	135:	learn:	0.3089986	total:	104ms	remaining:	659ms
4678	136:	learn:	0.3073320	total:	104ms	remaining:	658ms

demo

4679	137:learn:	0.3055373	total:	105msremaining:	657ms
4680	138:learn:	0.3042447	total:	106msremaining:	656ms
4681	139:learn:	0.3027133	total:	107msremaining:	655ms
4682	140:learn:	0.3006819	total:	107msremaining:	654ms
4683	141:learn:	0.2992543	total:	108msremaining:	652ms
4684	142:learn:	0.2975282	total:	109msremaining:	651ms
4685	143:learn:	0.2957838	total:	109msremaining:	650ms
4686	144:learn:	0.2941887	total:	110msremaining:	650ms
4687	145:learn:	0.2928669	total:	111msremaining:	649ms
4688	146:learn:	0.2909636	total:	112msremaining:	648ms
4689	147:learn:	0.2894157	total:	112msremaining:	647ms
4690	148:learn:	0.2880036	total:	113msremaining:	647ms
4691	149:learn:	0.2866089	total:	114msremaining:	646ms
4692	150:learn:	0.2853714	total:	115msremaining:	645ms
4693	151:learn:	0.2840744	total:	115msremaining:	644ms
4694	152:learn:	0.2822464	total:	116msremaining:	643ms
4695	153:learn:	0.2808872	total:	117msremaining:	641ms
4696	154:learn:	0.2789053	total:	117msremaining:	640ms
4697	155:learn:	0.2773432	total:	118msremaining:	639ms
4698	156:learn:	0.2757910	total:	119msremaining:	638ms
4699	157:learn:	0.2743435	total:	120msremaining:	637ms
4700	158:learn:	0.2729156	total:	120msremaining:	636ms
4701	159:learn:	0.2708844	total:	121msremaining:	634ms
4702	160:learn:	0.2695128	total:	121msremaining:	633ms
4703	161:learn:	0.2680471	total:	122msremaining:	632ms
4704	162:learn:	0.2667605	total:	123msremaining:	631ms
4705	163:learn:	0.2656504	total:	124msremaining:	631ms
4706	164:learn:	0.2642550	total:	125msremaining:	631ms
4707	165:learn:	0.2631195	total:	125msremaining:	630ms
4708	166:learn:	0.2619628	total:	126msremaining:	629ms
4709	167:learn:	0.2608898	total:	127msremaining:	628ms
4710	168:learn:	0.2593966	total:	128msremaining:	627ms
4711	169:learn:	0.2581720	total:	128msremaining:	626ms
4712	170:learn:	0.2568963	total:	129msremaining:	625ms
4713	171:learn:	0.2556041	total:	130msremaining:	624ms
4714	172:learn:	0.2540523	total:	130msremaining:	623ms
4715	173:learn:	0.2525055	total:	131msremaining:	623ms
4716	174:learn:	0.2513738	total:	132msremaining:	622ms
4717	175:learn:	0.2500929	total:	133msremaining:	621ms
4718	176:learn:	0.2488583	total:	133msremaining:	620ms
4719	177:learn:	0.2476059	total:	134msremaining:	619ms
4720	178:learn:	0.2465615	total:	135msremaining:	618ms
4721	179:learn:	0.2455229	total:	135msremaining:	617ms
4722	180:learn:	0.2442872	total:	136msremaining:	615ms
4723	181:learn:	0.2428251	total:	137msremaining:	615ms
4724	182:learn:	0.2418596	total:	137msremaining:	614ms
4725	183:learn:	0.2406451	total:	138msremaining:	613ms
4726	184:learn:	0.2395664	total:	139msremaining:	612ms
4727	185:learn:	0.2383674	total:	140msremaining:	611ms
4728	186:learn:	0.2374525	total:	140msremaining:	610ms
4729	187:learn:	0.2362545	total:	141msremaining:	609ms
4730	188:learn:	0.2351050	total:	142msremaining:	609ms
4731	189:learn:	0.2339888	total:	143msremaining:	608ms
4732	190:learn:	0.2328750	total:	143msremaining:	607ms
4733	191:learn:	0.2318502	total:	144msremaining:	606ms
4734	192:learn:	0.2307550	total:	145msremaining:	606ms
4735	193:learn:	0.2294712	total:	146msremaining:	605ms
4736	194:learn:	0.2284852	total:	146msremaining:	604ms
4737	195:learn:	0.2275966	total:	147msremaining:	603ms
4738	196:learn:	0.2267915	total:	148msremaining:	603ms
4739	197:learn:	0.2257088	total:	149msremaining:	602ms
4740	198:learn:	0.2248864	total:	149msremaining:	601ms
4741	199:learn:	0.2238296	total:	150msremaining:	601ms
4742	200:learn:	0.2228969	total:	151msremaining:	600ms
4743	201:learn:	0.2218608	total:	152msremaining:	599ms
4744	202:learn:	0.2208352	total:	152msremaining:	598ms
4745	203:learn:	0.2195951	total:	153msremaining:	598ms
4746	204:learn:	0.2186644	total:	154msremaining:	597ms
4747	205:learn:	0.2176014	total:	155msremaining:	597ms
4748	206:learn:	0.2165581	total:	156msremaining:	596ms
4749	207:learn:	0.2155173	total:	156msremaining:	595ms

demo

4750	208:learn:	0.2143682	total:	157msremaining:	595ms
4751	209:learn:	0.2129858	total:	158msremaining:	594ms
4752	210:learn:	0.2116534	total:	159msremaining:	594ms
4753	211:learn:	0.2108638	total:	160msremaining:	593ms
4754	212:learn:	0.2099368	total:	160msremaining:	593ms
4755	213:learn:	0.2089653	total:	162msremaining:	595ms
4756	214:learn:	0.2079271	total:	163msremaining:	595ms
4757	215:learn:	0.2069383	total:	164msremaining:	595ms
4758	216:learn:	0.2060243	total:	165msremaining:	594ms
4759	217:learn:	0.2051397	total:	166msremaining:	594ms
4760	218:learn:	0.2042753	total:	166msremaining:	593ms
4761	219:learn:	0.2036113	total:	167msremaining:	593ms
4762	220:learn:	0.2027355	total:	168msremaining:	593ms
4763	221:learn:	0.2018572	total:	169msremaining:	592ms
4764	222:learn:	0.2009866	total:	170msremaining:	592ms
4765	223:learn:	0.2001027	total:	171msremaining:	592ms
4766	224:learn:	0.1991923	total:	172msremaining:	591ms
4767	225:learn:	0.1981887	total:	173msremaining:	591ms
4768	226:learn:	0.1971800	total:	173msremaining:	590ms
4769	227:learn:	0.1960984	total:	174msremaining:	590ms
4770	228:learn:	0.1952174	total:	175msremaining:	590ms
4771	229:learn:	0.1944687	total:	176msremaining:	589ms
4772	230:learn:	0.1936630	total:	177msremaining:	589ms
4773	231:learn:	0.1929685	total:	178msremaining:	589ms
4774	232:learn:	0.1922419	total:	179msremaining:	589ms
4775	233:learn:	0.1913346	total:	180msremaining:	589ms
4776	234:learn:	0.1901403	total:	181msremaining:	589ms
4777	235:learn:	0.1893490	total:	182msremaining:	588ms
4778	236:learn:	0.1884520	total:	183msremaining:	588ms
4779	237:learn:	0.1875956	total:	184msremaining:	588ms
4780	238:learn:	0.1865556	total:	184msremaining:	587ms
4781	239:learn:	0.1858448	total:	185msremaining:	587ms
4782	240:learn:	0.1852336	total:	186msremaining:	586ms
4783	241:learn:	0.1843173	total:	187msremaining:	585ms
4784	242:learn:	0.1834145	total:	188msremaining:	585ms
4785	243:learn:	0.1825761	total:	188msremaining:	584ms
4786	244:learn:	0.1818465	total:	189msremaining:	583ms
4787	245:learn:	0.1811796	total:	190msremaining:	582ms
4788	246:learn:	0.1804258	total:	191msremaining:	582ms
4789	247:learn:	0.1797379	total:	192msremaining:	581ms
4790	248:learn:	0.1787561	total:	192msremaining:	580ms
4791	249:learn:	0.1781219	total:	193msremaining:	579ms
4792	250:learn:	0.1774700	total:	194msremaining:	579ms
4793	251:learn:	0.1766525	total:	195msremaining:	579ms
4794	252:learn:	0.1758201	total:	196msremaining:	578ms
4795	253:learn:	0.1751377	total:	197msremaining:	577ms
4796	254:learn:	0.1746191	total:	197msremaining:	577ms
4797	255:learn:	0.1738017	total:	198msremaining:	576ms
4798	256:learn:	0.1728693	total:	199msremaining:	576ms
4799	257:learn:	0.1721752	total:	200msremaining:	575ms
4800	258:learn:	0.1712975	total:	201msremaining:	574ms
4801	259:learn:	0.1706676	total:	202msremaining:	574ms
4802	260:learn:	0.1699560	total:	202msremaining:	573ms
4803	261:learn:	0.1691468	total:	203msremaining:	572ms
4804	262:learn:	0.1683592	total:	204msremaining:	572ms
4805	263:learn:	0.1676369	total:	205msremaining:	571ms
4806	264:learn:	0.1668627	total:	206msremaining:	570ms
4807	265:learn:	0.1661519	total:	207msremaining:	570ms
4808	266:learn:	0.1655632	total:	207msremaining:	569ms
4809	267:learn:	0.1649728	total:	208msremaining:	569ms
4810	268:learn:	0.1642485	total:	209msremaining:	568ms
4811	269:learn:	0.1636103	total:	210msremaining:	568ms
4812	270:learn:	0.1629274	total:	211msremaining:	567ms
4813	271:learn:	0.1618894	total:	211msremaining:	566ms
4814	272:learn:	0.1612936	total:	212msremaining:	565ms
4815	273:learn:	0.1605165	total:	213msremaining:	565ms
4816	274:learn:	0.1596526	total:	214msremaining:	564ms
4817	275:learn:	0.1588876	total:	215msremaining:	564ms
4818	276:learn:	0.1582520	total:	216msremaining:	563ms
4819	277:learn:	0.1576628	total:	216msremaining:	562ms
4820	278:learn:	0.1570972	total:	217msremaining:	562ms

demo

4821	279:learn:	0.1564868	total:	218msremaining:	561ms
4822	280:learn:	0.1560255	total:	219msremaining:	560ms
4823	281:learn:	0.1553627	total:	220msremaining:	560ms
4824	282:learn:	0.1547939	total:	221msremaining:	559ms
4825	283:learn:	0.1541679	total:	222msremaining:	559ms
4826	284:learn:	0.1533176	total:	222msremaining:	558ms
4827	285:learn:	0.1526752	total:	223msremaining:	557ms
4828	286:learn:	0.1521309	total:	224msremaining:	557ms
4829	287:learn:	0.1515475	total:	225msremaining:	556ms
4830	288:learn:	0.1509318	total:	226msremaining:	556ms
4831	289:learn:	0.1504063	total:	227msremaining:	555ms
4832	290:learn:	0.1498601	total:	228msremaining:	555ms
4833	291:learn:	0.1492662	total:	228msremaining:	554ms
4834	292:learn:	0.1486927	total:	229msremaining:	553ms
4835	293:learn:	0.1480630	total:	230msremaining:	553ms
4836	294:learn:	0.1476686	total:	231msremaining:	552ms
4837	295:learn:	0.1470610	total:	232msremaining:	553ms
4838	296:learn:	0.1466007	total:	233msremaining:	552ms
4839	297:learn:	0.1459535	total:	234msremaining:	551ms
4840	298:learn:	0.1455105	total:	235msremaining:	551ms
4841	299:learn:	0.1449939	total:	236msremaining:	551ms
4842	300:learn:	0.1444497	total:	237msremaining:	551ms
4843	301:learn:	0.1439226	total:	238msremaining:	550ms
4844	302:learn:	0.1434157	total:	239msremaining:	549ms
4845	303:learn:	0.1428775	total:	240msremaining:	549ms
4846	304:learn:	0.1422675	total:	241msremaining:	548ms
4847	305:learn:	0.1418308	total:	242msremaining:	548ms
4848	306:learn:	0.1413455	total:	243msremaining:	548ms
4849	307:learn:	0.1408577	total:	244msremaining:	548ms
4850	308:learn:	0.1402640	total:	245msremaining:	548ms
4851	309:learn:	0.1398612	total:	246msremaining:	548ms
4852	310:learn:	0.1393069	total:	247msremaining:	548ms
4853	311:learn:	0.1388611	total:	248msremaining:	547ms
4854	312:learn:	0.1380849	total:	249msremaining:	547ms
4855	313:learn:	0.1373634	total:	250msremaining:	547ms
4856	314:learn:	0.1368675	total:	251msremaining:	546ms
4857	315:learn:	0.1362999	total:	252msremaining:	546ms
4858	316:learn:	0.1357133	total:	253msremaining:	545ms
4859	317:learn:	0.1352558	total:	254msremaining:	545ms
4860	318:learn:	0.1347699	total:	255msremaining:	544ms
4861	319:learn:	0.1342309	total:	256msremaining:	544ms
4862	320:learn:	0.1336457	total:	257msremaining:	543ms
4863	321:learn:	0.1332128	total:	258msremaining:	543ms
4864	322:learn:	0.1326167	total:	259msremaining:	543ms
4865	323:learn:	0.1321546	total:	260msremaining:	543ms
4866	324:learn:	0.1317056	total:	261msremaining:	542ms
4867	325:learn:	0.1312242	total:	262msremaining:	542ms
4868	326:learn:	0.1307234	total:	263msremaining:	542ms
4869	327:learn:	0.1303118	total:	265msremaining:	542ms
4870	328:learn:	0.1298308	total:	266msremaining:	543ms
4871	329:learn:	0.1293803	total:	268msremaining:	544ms
4872	330:learn:	0.1288342	total:	269msremaining:	543ms
4873	331:learn:	0.1283721	total:	270msremaining:	543ms
4874	332:learn:	0.1279769	total:	271msremaining:	542ms
4875	333:learn:	0.1274804	total:	272msremaining:	542ms
4876	334:learn:	0.1269569	total:	272msremaining:	541ms
4877	335:learn:	0.1264330	total:	273msremaining:	540ms
4878	336:learn:	0.1258900	total:	274msremaining:	539ms
4879	337:learn:	0.1253668	total:	275msremaining:	538ms
4880	338:learn:	0.1250524	total:	276msremaining:	538ms
4881	339:learn:	0.1246903	total:	277msremaining:	537ms
4882	340:learn:	0.1242266	total:	277msremaining:	536ms
4883	341:learn:	0.1237675	total:	278msremaining:	535ms
4884	342:learn:	0.1234259	total:	279msremaining:	535ms
4885	343:learn:	0.1229631	total:	280msremaining:	534ms
4886	344:learn:	0.1224338	total:	281msremaining:	534ms
4887	345:learn:	0.1219628	total:	282msremaining:	533ms
4888	346:learn:	0.1216524	total:	283msremaining:	532ms
4889	347:learn:	0.1212402	total:	284msremaining:	532ms
4890	348:learn:	0.1208602	total:	285msremaining:	531ms
4891	349:learn:	0.1204497	total:	285msremaining:	530ms

demo

4892	350:learn:	0.1198493	total:	286msremaining:	530ms
4893	351:learn:	0.1195177	total:	287msremaining:	529ms
4894	352:learn:	0.1190405	total:	288msremaining:	529ms
4895	353:learn:	0.1185687	total:	289msremaining:	528ms
4896	354:learn:	0.1182375	total:	290msremaining:	527ms
4897	355:learn:	0.1177579	total:	291msremaining:	527ms
4898	356:learn:	0.1173302	total:	292msremaining:	526ms
4899	357:learn:	0.1168430	total:	293msremaining:	525ms
4900	358:learn:	0.1163912	total:	293msremaining:	524ms
4901	359:learn:	0.1158748	total:	294msremaining:	523ms
4902	360:learn:	0.1155109	total:	295msremaining:	522ms
4903	361:learn:	0.1150050	total:	296msremaining:	522ms
4904	362:learn:	0.1145259	total:	297msremaining:	521ms
4905	363:learn:	0.1141992	total:	298msremaining:	520ms
4906	364:learn:	0.1138791	total:	299msremaining:	520ms
4907	365:learn:	0.1135558	total:	300msremaining:	519ms
4908	366:learn:	0.1132358	total:	301msremaining:	519ms
4909	367:learn:	0.1128916	total:	302msremaining:	518ms
4910	368:learn:	0.1124772	total:	303msremaining:	517ms
4911	369:learn:	0.1120511	total:	303msremaining:	516ms
4912	370:learn:	0.1116871	total:	304msremaining:	516ms
4913	371:learn:	0.1113048	total:	305msremaining:	515ms
4914	372:learn:	0.1109590	total:	306msremaining:	514ms
4915	373:learn:	0.1105616	total:	307msremaining:	514ms
4916	374:learn:	0.1102498	total:	308msremaining:	513ms
4917	375:learn:	0.1098961	total:	309msremaining:	512ms
4918	376:learn:	0.1094705	total:	309msremaining:	511ms
4919	377:learn:	0.1090523	total:	310msremaining:	511ms
4920	378:learn:	0.1086827	total:	311msremaining:	510ms
4921	379:learn:	0.1082601	total:	312msremaining:	509ms
4922	380:learn:	0.1077783	total:	313msremaining:	508ms
4923	381:learn:	0.1074331	total:	314msremaining:	507ms
4924	382:learn:	0.1070985	total:	315msremaining:	507ms
4925	383:learn:	0.1067322	total:	316msremaining:	506ms
4926	384:learn:	0.1063939	total:	316msremaining:	505ms
4927	385:learn:	0.1060936	total:	317msremaining:	504ms
4928	386:learn:	0.1057504	total:	318msremaining:	504ms
4929	387:learn:	0.1054070	total:	319msremaining:	503ms
4930	388:learn:	0.1050315	total:	320msremaining:	502ms
4931	389:learn:	0.1046476	total:	321msremaining:	501ms
4932	390:learn:	0.1043253	total:	321msremaining:	500ms
4933	391:learn:	0.1039176	total:	322msremaining:	499ms
4934	392:learn:	0.1035790	total:	323msremaining:	498ms
4935	393:learn:	0.1031942	total:	323msremaining:	497ms
4936	394:learn:	0.1027315	total:	324msremaining:	496ms
4937	395:learn:	0.1024055	total:	325msremaining:	495ms
4938	396:learn:	0.1021009	total:	325msremaining:	494ms
4939	397:learn:	0.1018027	total:	326msremaining:	493ms
4940	398:learn:	0.1014690	total:	327msremaining:	492ms
4941	399:learn:	0.1011642	total:	328msremaining:	491ms
4942	400:learn:	0.1008902	total:	328msremaining:	491ms
4943	401:learn:	0.1006602	total:	329msremaining:	490ms
4944	402:learn:	0.1003602	total:	330msremaining:	489ms
4945	403:learn:	0.1000457	total:	331msremaining:	488ms
4946	404:learn:	0.0996683	total:	331msremaining:	487ms
4947	405:learn:	0.0993902	total:	332msremaining:	486ms
4948	406:learn:	0.0989434	total:	333msremaining:	485ms
4949	407:learn:	0.0985925	total:	334msremaining:	484ms
4950	408:learn:	0.0983023	total:	335msremaining:	483ms
4951	409:learn:	0.0979664	total:	335msremaining:	483ms
4952	410:learn:	0.0976554	total:	336msremaining:	482ms
4953	411:learn:	0.0974133	total:	337msremaining:	481ms
4954	412:learn:	0.0970937	total:	338msremaining:	480ms
4955	413:learn:	0.0967371	total:	338msremaining:	479ms
4956	414:learn:	0.0963947	total:	339msremaining:	478ms
4957	415:learn:	0.0960658	total:	340msremaining:	477ms
4958	416:learn:	0.0957308	total:	341msremaining:	476ms
4959	417:learn:	0.0953578	total:	341msremaining:	475ms
4960	418:learn:	0.0949152	total:	342msremaining:	475ms
4961	419:learn:	0.0946534	total:	343msremaining:	474ms
4962	420:learn:	0.0943705	total:	344msremaining:	473ms

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4963	421:learn:	0.0940004	total:	344msremaining:	472ms
4964	422:learn:	0.0937625	total:	345msremaining:	471ms
4965	423:learn:	0.0934099	total:	346msremaining:	470ms
4966	424:learn:	0.0930780	total:	346msremaining:	469ms
4967	425:learn:	0.0927725	total:	347msremaining:	468ms
4968	426:learn:	0.0925037	total:	348msremaining:	467ms
4969	427:learn:	0.0922886	total:	348msremaining:	466ms
4970	428:learn:	0.0919564	total:	349msremaining:	465ms
4971	429:learn:	0.0917226	total:	350msremaining:	464ms
4972	430:learn:	0.0913871	total:	351msremaining:	463ms
4973	431:learn:	0.0910754	total:	351msremaining:	462ms
4974	432:learn:	0.0907766	total:	352msremaining:	461ms
4975	433:learn:	0.0905507	total:	353msremaining:	460ms
4976	434:learn:	0.0901555	total:	353msremaining:	459ms
4977	435:learn:	0.0898469	total:	354msremaining:	458ms
4978	436:learn:	0.0894880	total:	355msremaining:	457ms
4979	437:learn:	0.0892043	total:	355msremaining:	456ms
4980	438:learn:	0.0889719	total:	356msremaining:	455ms
4981	439:learn:	0.0886452	total:	357msremaining:	454ms
4982	440:learn:	0.0884251	total:	358msremaining:	454ms
4983	441:learn:	0.0882147	total:	358msremaining:	453ms
4984	442:learn:	0.0879048	total:	359msremaining:	452ms
4985	443:learn:	0.0876051	total:	360msremaining:	451ms
4986	444:learn:	0.0873720	total:	361msremaining:	450ms
4987	445:learn:	0.0871262	total:	361msremaining:	449ms
4988	446:learn:	0.0869313	total:	362msremaining:	448ms
4989	447:learn:	0.0866945	total:	363msremaining:	447ms
4990	448:learn:	0.0863152	total:	363msremaining:	446ms
4991	449:learn:	0.0860792	total:	364msremaining:	445ms
4992	450:learn:	0.0858124	total:	365msremaining:	444ms
4993	451:learn:	0.0855754	total:	365msremaining:	443ms
4994	452:learn:	0.0852977	total:	366msremaining:	442ms
4995	453:learn:	0.0850053	total:	367msremaining:	441ms
4996	454:learn:	0.0847723	total:	367msremaining:	440ms
4997	455:learn:	0.0843946	total:	368msremaining:	439ms
4998	456:learn:	0.0841648	total:	369msremaining:	438ms
4999	457:learn:	0.0839341	total:	370msremaining:	437ms
5000	458:learn:	0.0835975	total:	370msremaining:	437ms
5001	459:learn:	0.0832362	total:	371msremaining:	435ms
5002	460:learn:	0.0830219	total:	372msremaining:	434ms
5003	461:learn:	0.0826462	total:	372msremaining:	433ms
5004	462:learn:	0.0824597	total:	373msremaining:	432ms
5005	463:learn:	0.0821021	total:	374msremaining:	432ms
5006	464:learn:	0.0819077	total:	374msremaining:	431ms
5007	465:learn:	0.0816377	total:	375msremaining:	430ms
5008	466:learn:	0.0814615	total:	376msremaining:	429ms
5009	467:learn:	0.0811511	total:	376msremaining:	428ms
5010	468:learn:	0.0809692	total:	377msremaining:	427ms
5011	469:learn:	0.0807713	total:	378msremaining:	426ms
5012	470:learn:	0.0805627	total:	378msremaining:	425ms
5013	471:learn:	0.0803692	total:	379msremaining:	424ms
5014	472:learn:	0.0801630	total:	380msremaining:	423ms
5015	473:learn:	0.0799134	total:	380msremaining:	422ms
5016	474:learn:	0.0796961	total:	381msremaining:	421ms
5017	475:learn:	0.0794840	total:	382msremaining:	420ms
5018	476:learn:	0.0793279	total:	383msremaining:	419ms
5019	477:learn:	0.0791230	total:	383msremaining:	418ms
5020	478:learn:	0.0789143	total:	384msremaining:	418ms
5021	479:learn:	0.0786222	total:	385msremaining:	417ms
5022	480:learn:	0.0784492	total:	385msremaining:	416ms
5023	481:learn:	0.0782525	total:	386msremaining:	415ms
5024	482:learn:	0.0779962	total:	387msremaining:	414ms
5025	483:learn:	0.0777860	total:	388msremaining:	413ms
5026	484:learn:	0.0774801	total:	388msremaining:	412ms
5027	485:learn:	0.0772127	total:	389msremaining:	411ms
5028	486:learn:	0.0770701	total:	390msremaining:	411ms
5029	487:learn:	0.0767827	total:	390msremaining:	410ms
5030	488:learn:	0.0765577	total:	391msremaining:	409ms
5031	489:learn:	0.0763912	total:	392msremaining:	408ms
5032	490:learn:	0.0762018	total:	392msremaining:	407ms
5033	491:learn:	0.0760576	total:	393msremaining:	406ms

demo

5034	492:learn:	0.0758677	total:	394msremaining:	405ms
5035	493:learn:	0.0756412	total:	394msremaining:	404ms
5036	494:learn:	0.0754590	total:	395msremaining:	403ms
5037	495:learn:	0.0752242	total:	396msremaining:	402ms
5038	496:learn:	0.0749976	total:	397msremaining:	401ms
5039	497:learn:	0.0747919	total:	397msremaining:	400ms
5040	498:learn:	0.0745559	total:	398msremaining:	400ms
5041	499:learn:	0.0744181	total:	399msremaining:	399ms
5042	500:learn:	0.0741720	total:	400msremaining:	398ms
5043	501:learn:	0.0739549	total:	400msremaining:	397ms
5044	502:learn:	0.0737828	total:	401msremaining:	397ms
5045	503:learn:	0.0735756	total:	402msremaining:	396ms
5046	504:learn:	0.0732688	total:	403msremaining:	395ms
5047	505:learn:	0.0730691	total:	404msremaining:	394ms
5048	506:learn:	0.0728490	total:	404msremaining:	393ms
5049	507:learn:	0.0726033	total:	405msremaining:	392ms
5050	508:learn:	0.0721908	total:	406msremaining:	391ms
5051	509:learn:	0.0720503	total:	406msremaining:	390ms
5052	510:learn:	0.0718744	total:	407msremaining:	389ms
5053	511:learn:	0.0716575	total:	408msremaining:	389ms
5054	512:learn:	0.0715251	total:	408msremaining:	388ms
5055	513:learn:	0.0713546	total:	409msremaining:	387ms
5056	514:learn:	0.0711188	total:	410msremaining:	386ms
5057	515:learn:	0.0709320	total:	411msremaining:	385ms
5058	516:learn:	0.0707606	total:	411msremaining:	384ms
5059	517:learn:	0.0704996	total:	412msremaining:	383ms
5060	518:learn:	0.0703253	total:	413msremaining:	383ms
5061	519:learn:	0.0700851	total:	414msremaining:	382ms
5062	520:learn:	0.0698921	total:	415msremaining:	381ms
5063	521:learn:	0.0695847	total:	415msremaining:	380ms
5064	522:learn:	0.0693910	total:	416msremaining:	379ms
5065	523:learn:	0.0692281	total:	417msremaining:	379ms
5066	524:learn:	0.0689871	total:	418msremaining:	378ms
5067	525:learn:	0.0688353	total:	418msremaining:	377ms
5068	526:learn:	0.0686595	total:	419msremaining:	376ms
5069	527:learn:	0.0684743	total:	420msremaining:	375ms
5070	528:learn:	0.0682684	total:	421msremaining:	374ms
5071	529:learn:	0.0680295	total:	421msremaining:	374ms
5072	530:learn:	0.0678002	total:	422msremaining:	373ms
5073	531:learn:	0.0676127	total:	423msremaining:	372ms
5074	532:learn:	0.0674030	total:	423msremaining:	371ms
5075	533:learn:	0.0672591	total:	424msremaining:	370ms
5076	534:learn:	0.0670967	total:	425msremaining:	369ms
5077	535:learn:	0.0669158	total:	426msremaining:	368ms
5078	536:learn:	0.0667616	total:	427msremaining:	368ms
5079	537:learn:	0.0665228	total:	427msremaining:	367ms
5080	538:learn:	0.0663457	total:	428msremaining:	366ms
5081	539:learn:	0.0661953	total:	429msremaining:	365ms
5082	540:learn:	0.0660375	total:	430msremaining:	364ms
5083	541:learn:	0.0658940	total:	430msremaining:	364ms
5084	542:learn:	0.0657388	total:	431msremaining:	363ms
5085	543:learn:	0.0655715	total:	432msremaining:	362ms
5086	544:learn:	0.0654000	total:	432msremaining:	361ms
5087	545:learn:	0.0652560	total:	433msremaining:	360ms
5088	546:learn:	0.0651120	total:	434msremaining:	359ms
5089	547:learn:	0.0649459	total:	434msremaining:	358ms
5090	548:learn:	0.0647376	total:	435msremaining:	357ms
5091	549:learn:	0.0645965	total:	436msremaining:	357ms
5092	550:learn:	0.0644519	total:	437msremaining:	356ms
5093	551:learn:	0.0641908	total:	437msremaining:	355ms
5094	552:learn:	0.0640128	total:	438msremaining:	354ms
5095	553:learn:	0.0638253	total:	439msremaining:	353ms
5096	554:learn:	0.0636454	total:	440msremaining:	352ms
5097	555:learn:	0.0635261	total:	440msremaining:	352ms
5098	556:learn:	0.0633697	total:	441msremaining:	351ms
5099	557:learn:	0.0632372	total:	442msremaining:	350ms
5100	558:learn:	0.0631156	total:	442msremaining:	349ms
5101	559:learn:	0.0629255	total:	443msremaining:	348ms
5102	560:learn:	0.0627024	total:	444msremaining:	348ms
5103	561:learn:	0.0624856	total:	445msremaining:	347ms
5104	562:learn:	0.0622672	total:	446msremaining:	346ms

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5105	563:learn:	0.0621488	total:	446msremaining:	345ms
5106	564:learn:	0.0620148	total:	447msremaining:	344ms
5107	565:learn:	0.0618363	total:	448msremaining:	344ms
5108	566:learn:	0.0616626	total:	449msremaining:	343ms
5109	567:learn:	0.0614840	total:	450msremaining:	342ms
5110	568:learn:	0.0613572	total:	450msremaining:	341ms
5111	569:learn:	0.0611460	total:	451msremaining:	340ms
5112	570:learn:	0.0610374	total:	452msremaining:	339ms
5113	571:learn:	0.0609184	total:	452msremaining:	339ms
5114	572:learn:	0.0607814	total:	453msremaining:	338ms
5115	573:learn:	0.0606674	total:	454msremaining:	337ms
5116	574:learn:	0.0605335	total:	455msremaining:	336ms
5117	575:learn:	0.0602976	total:	455msremaining:	335ms
5118	576:learn:	0.0601579	total:	456msremaining:	334ms
5119	577:learn:	0.0600570	total:	457msremaining:	333ms
5120	578:learn:	0.0598781	total:	457msremaining:	333ms
5121	579:learn:	0.0596716	total:	458msremaining:	332ms
5122	580:learn:	0.0595686	total:	459msremaining:	331ms
5123	581:learn:	0.0594129	total:	460msremaining:	330ms
5124	582:learn:	0.0592747	total:	460msremaining:	329ms
5125	583:learn:	0.0591798	total:	461msremaining:	328ms
5126	584:learn:	0.0589884	total:	462msremaining:	328ms
5127	585:learn:	0.0588227	total:	463msremaining:	327ms
5128	586:learn:	0.0586820	total:	463msremaining:	326ms
5129	587:learn:	0.0585711	total:	464msremaining:	325ms
5130	588:learn:	0.0584457	total:	465msremaining:	324ms
5131	589:learn:	0.0583218	total:	465msremaining:	323ms
5132	590:learn:	0.0581407	total:	466msremaining:	323ms
5133	591:learn:	0.0579294	total:	467msremaining:	322ms
5134	592:learn:	0.0578241	total:	467msremaining:	321ms
5135	593:learn:	0.0576353	total:	468msremaining:	320ms
5136	594:learn:	0.0575123	total:	469msremaining:	319ms
5137	595:learn:	0.0573382	total:	470msremaining:	318ms
5138	596:learn:	0.0571973	total:	470msremaining:	318ms
5139	597:learn:	0.0570653	total:	471msremaining:	317ms
5140	598:learn:	0.0569252	total:	472msremaining:	316ms
5141	599:learn:	0.0567646	total:	472msremaining:	315ms
5142	600:learn:	0.0566262	total:	473msremaining:	314ms
5143	601:learn:	0.0564601	total:	474msremaining:	313ms
5144	602:learn:	0.0563444	total:	475msremaining:	312ms
5145	603:learn:	0.0561864	total:	475msremaining:	312ms
5146	604:learn:	0.0560359	total:	476msremaining:	311ms
5147	605:learn:	0.0559166	total:	477msremaining:	310ms
5148	606:learn:	0.0557596	total:	478msremaining:	309ms
5149	607:learn:	0.0556634	total:	478msremaining:	308ms
5150	608:learn:	0.0554558	total:	479msremaining:	307ms
5151	609:learn:	0.0553244	total:	480msremaining:	307ms
5152	610:learn:	0.0551834	total:	480msremaining:	306ms
5153	611:learn:	0.0550713	total:	481msremaining:	305ms
5154	612:learn:	0.0549611	total:	482msremaining:	304ms
5155	613:learn:	0.0548669	total:	482msremaining:	303ms
5156	614:learn:	0.0547139	total:	483msremaining:	302ms
5157	615:learn:	0.0545625	total:	484msremaining:	302ms
5158	616:learn:	0.0544438	total:	485msremaining:	301ms
5159	617:learn:	0.0543556	total:	485msremaining:	300ms
5160	618:learn:	0.0541914	total:	486msremaining:	299ms
5161	619:learn:	0.0539903	total:	487msremaining:	298ms
5162	620:learn:	0.0538846	total:	487msremaining:	298ms
5163	621:learn:	0.0538072	total:	488msremaining:	297ms
5164	622:learn:	0.0537113	total:	489msremaining:	296ms
5165	623:learn:	0.0535568	total:	490msremaining:	295ms
5166	624:learn:	0.0534133	total:	490msremaining:	294ms
5167	625:learn:	0.0532449	total:	491msremaining:	293ms
5168	626:learn:	0.0530905	total:	492msremaining:	293ms
5169	627:learn:	0.0529710	total:	493msremaining:	292ms
5170	628:learn:	0.0528755	total:	493msremaining:	291ms
5171	629:learn:	0.0527945	total:	494msremaining:	290ms
5172	630:learn:	0.0526555	total:	495msremaining:	289ms
5173	631:learn:	0.0525137	total:	495msremaining:	288ms
5174	632:learn:	0.0523929	total:	496msremaining:	288ms
5175	633:learn:	0.0522642	total:	497msremaining:	287ms

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5176	634:learn:	0.0521050	total:	498msremaining:	286ms
5177	635:learn:	0.0519971	total:	498msremaining:	285ms
5178	636:learn:	0.0519002	total:	499msremaining:	284ms
5179	637:learn:	0.0517786	total:	500msremaining:	284ms
5180	638:learn:	0.0516800	total:	500msremaining:	283ms
5181	639:learn:	0.0515427	total:	501msremaining:	282ms
5182	640:learn:	0.0514615	total:	502msremaining:	281ms
5183	641:learn:	0.0513779	total:	503msremaining:	280ms
5184	642:learn:	0.0512233	total:	504msremaining:	280ms
5185	643:learn:	0.0511267	total:	504msremaining:	279ms
5186	644:learn:	0.0510415	total:	505msremaining:	278ms
5187	645:learn:	0.0509181	total:	506msremaining:	277ms
5188	646:learn:	0.0508035	total:	506msremaining:	276ms
5189	647:learn:	0.0506843	total:	507msremaining:	275ms
5190	648:learn:	0.0505825	total:	508msremaining:	275ms
5191	649:learn:	0.0504289	total:	508msremaining:	274ms
5192	650:learn:	0.0502850	total:	509msremaining:	273ms
5193	651:learn:	0.0501652	total:	510msremaining:	272ms
5194	652:learn:	0.0500251	total:	510msremaining:	271ms
5195	653:learn:	0.0499126	total:	511msremaining:	270ms
5196	654:learn:	0.0498124	total:	512msremaining:	270ms
5197	655:learn:	0.0497345	total:	512msremaining:	269ms
5198	656:learn:	0.0496289	total:	513msremaining:	268ms
5199	657:learn:	0.0494471	total:	514msremaining:	267ms
5200	658:learn:	0.0492777	total:	514msremaining:	266ms
5201	659:learn:	0.0491277	total:	515msremaining:	265ms
5202	660:learn:	0.0489736	total:	516msremaining:	265ms
5203	661:learn:	0.0488347	total:	517msremaining:	264ms
5204	662:learn:	0.0487211	total:	517msremaining:	263ms
5205	663:learn:	0.0485961	total:	518msremaining:	262ms
5206	664:learn:	0.0484833	total:	519msremaining:	261ms
5207	665:learn:	0.0483593	total:	519msremaining:	260ms
5208	666:learn:	0.0482277	total:	520msremaining:	260ms
5209	667:learn:	0.0480409	total:	521msremaining:	259ms
5210	668:learn:	0.0479310	total:	522msremaining:	258ms
5211	669:learn:	0.0478149	total:	522msremaining:	257ms
5212	670:learn:	0.0476756	total:	523msremaining:	256ms
5213	671:learn:	0.0475698	total:	524msremaining:	256ms
5214	672:learn:	0.0474921	total:	524msremaining:	255ms
5215	673:learn:	0.0473949	total:	525msremaining:	254ms
5216	674:learn:	0.0472995	total:	526msremaining:	253ms
5217	675:learn:	0.0471319	total:	526msremaining:	252ms
5218	676:learn:	0.0470305	total:	527msremaining:	251ms
5219	677:learn:	0.0469060	total:	528msremaining:	251ms
5220	678:learn:	0.0467893	total:	528msremaining:	250ms
5221	679:learn:	0.0466508	total:	529msremaining:	249ms
5222	680:learn:	0.0465772	total:	530msremaining:	248ms
5223	681:learn:	0.0464858	total:	530msremaining:	247ms
5224	682:learn:	0.0463953	total:	531msremaining:	247ms
5225	683:learn:	0.0462736	total:	532msremaining:	246ms
5226	684:learn:	0.0461666	total:	533msremaining:	245ms
5227	685:learn:	0.0460849	total:	533msremaining:	244ms
5228	686:learn:	0.0459738	total:	534msremaining:	243ms
5229	687:learn:	0.0458886	total:	535msremaining:	242ms
5230	688:learn:	0.0458185	total:	535msremaining:	242ms
5231	689:learn:	0.0457282	total:	536msremaining:	241ms
5232	690:learn:	0.0456100	total:	537msremaining:	240ms
5233	691:learn:	0.0455157	total:	538msremaining:	239ms
5234	692:learn:	0.0454211	total:	538msremaining:	238ms
5235	693:learn:	0.0453401	total:	539msremaining:	238ms
5236	694:learn:	0.0452598	total:	540msremaining:	237ms
5237	695:learn:	0.0451977	total:	540msremaining:	236ms
5238	696:learn:	0.0450990	total:	541msremaining:	235ms
5239	697:learn:	0.0450158	total:	542msremaining:	234ms
5240	698:learn:	0.0449359	total:	542msremaining:	234ms
5241	699:learn:	0.0447927	total:	543msremaining:	233ms
5242	700:learn:	0.0446812	total:	544msremaining:	232ms
5243	701:learn:	0.0445121	total:	544msremaining:	231ms
5244	702:learn:	0.0443848	total:	545msremaining:	230ms
5245	703:learn:	0.0442975	total:	546msremaining:	230ms
5246	704:learn:	0.0441765	total:	547msremaining:	229ms

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5247	705:learn:	0.0440980	total:	547msremaining:	228ms
5248	706:learn:	0.0440324	total:	548msremaining:	227ms
5249	707:learn:	0.0439488	total:	549msremaining:	226ms
5250	708:learn:	0.0438653	total:	549msremaining:	226ms
5251	709:learn:	0.0437553	total:	550msremaining:	225ms
5252	710:learn:	0.0436701	total:	551msremaining:	224ms
5253	711:learn:	0.0436040	total:	551msremaining:	223ms
5254	712:learn:	0.0435324	total:	552msremaining:	222ms
5255	713:learn:	0.0434105	total:	553msremaining:	221ms
5256	714:learn:	0.0433328	total:	554msremaining:	221ms
5257	715:learn:	0.0432168	total:	554msremaining:	220ms
5258	716:learn:	0.0431146	total:	555msremaining:	219ms
5259	717:learn:	0.0429991	total:	556msremaining:	218ms
5260	718:learn:	0.0428776	total:	556msremaining:	217ms
5261	719:learn:	0.0427693	total:	557msremaining:	217ms
5262	720:learn:	0.0426577	total:	558msremaining:	216ms
5263	721:learn:	0.0425460	total:	558msremaining:	215ms
5264	722:learn:	0.0424506	total:	559msremaining:	214ms
5265	723:learn:	0.0422555	total:	560msremaining:	213ms
5266	724:learn:	0.0421686	total:	560msremaining:	213ms
5267	725:learn:	0.0420971	total:	561msremaining:	212ms
5268	726:learn:	0.0420071	total:	562msremaining:	211ms
5269	727:learn:	0.0419398	total:	563msremaining:	210ms
5270	728:learn:	0.0418481	total:	563msremaining:	209ms
5271	729:learn:	0.0417406	total:	564msremaining:	209ms
5272	730:learn:	0.0416340	total:	565msremaining:	208ms
5273	731:learn:	0.0414942	total:	565msremaining:	207ms
5274	732:learn:	0.0414037	total:	566msremaining:	206ms
5275	733:learn:	0.0413437	total:	567msremaining:	205ms
5276	734:learn:	0.0412774	total:	567msremaining:	205ms
5277	735:learn:	0.0411762	total:	568msremaining:	204ms
5278	736:learn:	0.0410884	total:	569msremaining:	203ms
5279	737:learn:	0.0410112	total:	569msremaining:	202ms
5280	738:learn:	0.0409143	total:	570msremaining:	201ms
5281	739:learn:	0.0408201	total:	571msremaining:	201ms
5282	740:learn:	0.0407705	total:	572msremaining:	200ms
5283	741:learn:	0.0407212	total:	572msremaining:	199ms
5284	742:learn:	0.0406417	total:	573msremaining:	198ms
5285	743:learn:	0.0405738	total:	574msremaining:	197ms
5286	744:learn:	0.0404893	total:	574msremaining:	197ms
5287	745:learn:	0.0404086	total:	575msremaining:	196ms
5288	746:learn:	0.0403513	total:	576msremaining:	195ms
5289	747:learn:	0.0402810	total:	577msremaining:	194ms
5290	748:learn:	0.0402198	total:	577msremaining:	194ms
5291	749:learn:	0.0400877	total:	578msremaining:	193ms
5292	750:learn:	0.0399620	total:	579msremaining:	192ms
5293	751:learn:	0.0398959	total:	579msremaining:	191ms
5294	752:learn:	0.0398359	total:	580msremaining:	190ms
5295	753:learn:	0.0397591	total:	581msremaining:	189ms
5296	754:learn:	0.0396588	total:	581msremaining:	189ms
5297	755:learn:	0.0396006	total:	582msremaining:	188ms
5298	756:learn:	0.0395391	total:	583msremaining:	187ms
5299	757:learn:	0.0394627	total:	583msremaining:	186ms
5300	758:learn:	0.0394002	total:	584msremaining:	185ms
5301	759:learn:	0.0393143	total:	585msremaining:	185ms
5302	760:learn:	0.0392362	total:	585msremaining:	184ms
5303	761:learn:	0.0391769	total:	586msremaining:	183ms
5304	762:learn:	0.0391137	total:	586msremaining:	182ms
5305	763:learn:	0.0390502	total:	587msremaining:	181ms
5306	764:learn:	0.0390014	total:	588msremaining:	181ms
5307	765:learn:	0.0389279	total:	588msremaining:	180ms
5308	766:learn:	0.0388676	total:	589msremaining:	179ms
5309	767:learn:	0.0387604	total:	590msremaining:	178ms
5310	768:learn:	0.0386602	total:	590msremaining:	177ms
5311	769:learn:	0.0386142	total:	591msremaining:	177ms
5312	770:learn:	0.0385444	total:	592msremaining:	176ms
5313	771:learn:	0.0384794	total:	592msremaining:	175ms
5314	772:learn:	0.0383721	total:	593msremaining:	174ms
5315	773:learn:	0.0382998	total:	594msremaining:	173ms
5316	774:learn:	0.0382290	total:	594msremaining:	173ms
5317	775:learn:	0.0381413	total:	595msremaining:	172ms

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5318	776:learn:	0.0380829	total:	596msremaining:	171ms
5319	777:learn:	0.0379978	total:	596msremaining:	170ms
5320	778:learn:	0.0379061	total:	597msremaining:	169ms
5321	779:learn:	0.0377785	total:	598msremaining:	169ms
5322	780:learn:	0.0377131	total:	599msremaining:	168ms
5323	781:learn:	0.0376488	total:	599msremaining:	167ms
5324	782:learn:	0.0375643	total:	600msremaining:	166ms
5325	783:learn:	0.0374824	total:	601msremaining:	166ms
5326	784:learn:	0.0373079	total:	601msremaining:	165ms
5327	785:learn:	0.0372432	total:	602msremaining:	164ms
5328	786:learn:	0.0371634	total:	603msremaining:	163ms
5329	787:learn:	0.0371114	total:	603msremaining:	162ms
5330	788:learn:	0.0370441	total:	604msremaining:	162ms
5331	789:learn:	0.0369813	total:	605msremaining:	161ms
5332	790:learn:	0.0368970	total:	606msremaining:	160ms
5333	791:learn:	0.0368434	total:	607msremaining:	159ms
5334	792:learn:	0.0367647	total:	607msremaining:	159ms
5335	793:learn:	0.0366846	total:	608msremaining:	158ms
5336	794:learn:	0.0366317	total:	609msremaining:	157ms
5337	795:learn:	0.0365731	total:	609msremaining:	156ms
5338	796:learn:	0.0364267	total:	610msremaining:	155ms
5339	797:learn:	0.0363744	total:	611msremaining:	155ms
5340	798:learn:	0.0363124	total:	612msremaining:	154ms
5341	799:learn:	0.0362627	total:	612msremaining:	153ms
5342	800:learn:	0.0361913	total:	613msremaining:	152ms
5343	801:learn:	0.0361080	total:	614msremaining:	151ms
5344	802:learn:	0.0360165	total:	614msremaining:	151ms
5345	803:learn:	0.0358468	total:	615msremaining:	150ms
5346	804:learn:	0.0357866	total:	616msremaining:	149ms
5347	805:learn:	0.0357321	total:	616msremaining:	148ms
5348	806:learn:	0.0356774	total:	617msremaining:	148ms
5349	807:learn:	0.0356177	total:	618msremaining:	147ms
5350	808:learn:	0.0355492	total:	619msremaining:	146ms
5351	809:learn:	0.0354983	total:	619msremaining:	145ms
5352	810:learn:	0.0354382	total:	620msremaining:	144ms
5353	811:learn:	0.0353390	total:	621msremaining:	144ms
5354	812:learn:	0.0352791	total:	621msremaining:	143ms
5355	813:learn:	0.0352141	total:	622msremaining:	142ms
5356	814:learn:	0.0351331	total:	623msremaining:	141ms
5357	815:learn:	0.0350903	total:	624msremaining:	141ms
5358	816:learn:	0.0350386	total:	625msremaining:	140ms
5359	817:learn:	0.0349512	total:	625msremaining:	139ms
5360	818:learn:	0.0348991	total:	626msremaining:	138ms
5361	819:learn:	0.0348510	total:	627msremaining:	138ms
5362	820:learn:	0.0347917	total:	628msremaining:	137ms
5363	821:learn:	0.0347370	total:	628msremaining:	136ms
5364	822:learn:	0.0346805	total:	629msremaining:	135ms
5365	823:learn:	0.0346095	total:	630msremaining:	135ms
5366	824:learn:	0.0345099	total:	631msremaining:	134ms
5367	825:learn:	0.0344083	total:	631msremaining:	133ms
5368	826:learn:	0.0343699	total:	632msremaining:	132ms
5369	827:learn:	0.0343277	total:	633msremaining:	131ms
5370	828:learn:	0.0342877	total:	634msremaining:	131ms
5371	829:learn:	0.0342240	total:	634msremaining:	130ms
5372	830:learn:	0.0341702	total:	635msremaining:	129ms
5373	831:learn:	0.0340920	total:	636msremaining:	128ms
5374	832:learn:	0.0340516	total:	636msremaining:	128ms
5375	833:learn:	0.0339915	total:	637msremaining:	127ms
5376	834:learn:	0.0338893	total:	638msremaining:	126ms
5377	835:learn:	0.0338159	total:	639msremaining:	125ms
5378	836:learn:	0.0337414	total:	639msremaining:	124ms
5379	837:learn:	0.0336961	total:	640msremaining:	124ms
5380	838:learn:	0.0336330	total:	641msremaining:	123ms
5381	839:learn:	0.0335798	total:	641msremaining:	122ms
5382	840:learn:	0.0335394	total:	642msremaining:	121ms
5383	841:learn:	0.0334847	total:	643msremaining:	121ms
5384	842:learn:	0.0334349	total:	644msremaining:	120ms
5385	843:learn:	0.0333946	total:	644msremaining:	119ms
5386	844:learn:	0.0333573	total:	645msremaining:	118ms
5387	845:learn:	0.0333104	total:	646msremaining:	118ms
5388	846:learn:	0.0332276	total:	646msremaining:	117ms

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5389	847:learn:	0.0331586	total:	647msremaining:	116ms
5390	848:learn:	0.0330941	total:	648msremaining:	115ms
5391	849:learn:	0.0330099	total:	648msremaining:	114ms
5392	850:learn:	0.0329706	total:	649msremaining:	114ms
5393	851:learn:	0.0329303	total:	650msremaining:	113ms
5394	852:learn:	0.0328738	total:	651msremaining:	112ms
5395	853:learn:	0.0328231	total:	652msremaining:	111ms
5396	854:learn:	0.0327703	total:	652msremaining:	111ms
5397	855:learn:	0.0327170	total:	653msremaining:	110ms
5398	856:learn:	0.0326734	total:	654msremaining:	109ms
5399	857:learn:	0.0326321	total:	655msremaining:	108ms
5400	858:learn:	0.0325599	total:	655msremaining:	108ms
5401	859:learn:	0.0325039	total:	656msremaining:	107ms
5402	860:learn:	0.0324593	total:	656msremaining:	106ms
5403	861:learn:	0.0324086	total:	657msremaining:	105ms
5404	862:learn:	0.0323634	total:	658msremaining:	104ms
5405	863:learn:	0.0322954	total:	659msremaining:	104ms
5406	864:learn:	0.0322381	total:	659msremaining:	103ms
5407	865:learn:	0.0321847	total:	660msremaining:	102ms
5408	866:learn:	0.0321257	total:	661msremaining:	101ms
5409	867:learn:	0.0320589	total:	661msremaining:	101ms
5410	868:learn:	0.0320147	total:	662msremaining:	99.8ms
5411	869:learn:	0.0319625	total:	663msremaining:	99.1ms
5412	870:learn:	0.0318769	total:	664msremaining:	98.3ms
5413	871:learn:	0.0318279	total:	664msremaining:	97.5ms
5414	872:learn:	0.0317537	total:	665msremaining:	96.8ms
5415	873:learn:	0.0316698	total:	666msremaining:	96ms
5416	874:learn:	0.0316213	total:	667msremaining:	95.2ms
5417	875:learn:	0.0315794	total:	667msremaining:	94.5ms
5418	876:learn:	0.0315141	total:	668msremaining:	93.7ms
5419	877:learn:	0.0314507	total:	669msremaining:	93ms
5420	878:learn:	0.0314152	total:	670msremaining:	92.2ms
5421	879:learn:	0.0313701	total:	670msremaining:	91.4ms
5422	880:learn:	0.0313261	total:	671msremaining:	90.6ms
5423	881:learn:	0.0312931	total:	672msremaining:	89.9ms
5424	882:learn:	0.0312482	total:	672msremaining:	89.1ms
5425	883:learn:	0.0312008	total:	673msremaining:	88.3ms
5426	884:learn:	0.0311383	total:	674msremaining:	87.6ms
5427	885:learn:	0.0310871	total:	675msremaining:	86.8ms
5428	886:learn:	0.0310301	total:	675msremaining:	86ms
5429	887:learn:	0.0309770	total:	676msremaining:	85.3ms
5430	888:learn:	0.0309153	total:	677msremaining:	84.5ms
5431	889:learn:	0.0308649	total:	678msremaining:	83.8ms
5432	890:learn:	0.0308137	total:	679msremaining:	83ms
5433	891:learn:	0.0307764	total:	679msremaining:	82.2ms
5434	892:learn:	0.0307246	total:	680msremaining:	81.5ms
5435	893:learn:	0.0306839	total:	681msremaining:	80.7ms
5436	894:learn:	0.0306431	total:	681msremaining:	79.9ms
5437	895:learn:	0.0305968	total:	682msremaining:	79.2ms
5438	896:learn:	0.0305323	total:	683msremaining:	78.4ms
5439	897:learn:	0.0304749	total:	683msremaining:	77.6ms
5440	898:learn:	0.0304328	total:	684msremaining:	76.9ms
5441	899:learn:	0.0303850	total:	685msremaining:	76.1ms
5442	900:learn:	0.0303267	total:	685msremaining:	75.3ms
5443	901:learn:	0.0302742	total:	686msremaining:	74.6ms
5444	902:learn:	0.0302309	total:	687msremaining:	73.8ms
5445	903:learn:	0.0301918	total:	688msremaining:	73ms
5446	904:learn:	0.0301352	total:	689msremaining:	72.3ms
5447	905:learn:	0.0300826	total:	689msremaining:	71.5ms
5448	906:learn:	0.0300363	total:	690msremaining:	70.7ms
5449	907:learn:	0.0299894	total:	691msremaining:	70ms
5450	908:learn:	0.0299506	total:	692msremaining:	69.2ms
5451	909:learn:	0.0299027	total:	692msremaining:	68.5ms
5452	910:learn:	0.0298143	total:	693msremaining:	67.7ms
5453	911:learn:	0.0297708	total:	694msremaining:	66.9ms
5454	912:learn:	0.0297274	total:	694msremaining:	66.2ms
5455	913:learn:	0.0296756	total:	695msremaining:	65.4ms
5456	914:learn:	0.0296288	total:	696msremaining:	64.6ms
5457	915:learn:	0.0295896	total:	697msremaining:	63.9ms
5458	916:learn:	0.0295251	total:	697msremaining:	63.1ms
5459	917:learn:	0.0294741	total:	698msremaining:	62.4ms

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5460	918:learn:	0.0294111	total:	699msremaining:	61.6ms
5461	919:learn:	0.0293749	total:	699msremaining:	60.8ms
5462	920:learn:	0.0292728	total:	700msremaining:	60.1ms
5463	921:learn:	0.0292402	total:	701msremaining:	59.3ms
5464	922:learn:	0.0291887	total:	702msremaining:	58.6ms
5465	923:learn:	0.0291348	total:	703msremaining:	57.8ms
5466	924:learn:	0.0290871	total:	703msremaining:	57ms
5467	925:learn:	0.0290426	total:	704msremaining:	56.3ms
5468	926:learn:	0.0289798	total:	705msremaining:	55.5ms
5469	927:learn:	0.0289391	total:	705msremaining:	54.7ms
5470	928:learn:	0.0288986	total:	706msremaining:	54ms
5471	929:learn:	0.0288547	total:	707msremaining:	53.2ms
5472	930:learn:	0.0288156	total:	707msremaining:	52.4ms
5473	931:learn:	0.0287646	total:	708msremaining:	51.7ms
5474	932:learn:	0.0287213	total:	709msremaining:	50.9ms
5475	933:learn:	0.0286366	total:	710msremaining:	50.1ms
5476	934:learn:	0.0285791	total:	710msremaining:	49.4ms
5477	935:learn:	0.0285518	total:	711msremaining:	48.6ms
5478	936:learn:	0.0285213	total:	712msremaining:	47.8ms
5479	937:learn:	0.0284603	total:	712msremaining:	47.1ms
5480	938:learn:	0.0284242	total:	713msremaining:	46.3ms
5481	939:learn:	0.0283779	total:	714msremaining:	45.6ms
5482	940:learn:	0.0283331	total:	714msremaining:	44.8ms
5483	941:learn:	0.0282837	total:	715msremaining:	44ms
5484	942:learn:	0.0282512	total:	716msremaining:	43.3ms
5485	943:learn:	0.0282094	total:	716msremaining:	42.5ms
5486	944:learn:	0.0281784	total:	717msremaining:	41.7ms
5487	945:learn:	0.0281277	total:	718msremaining:	41ms
5488	946:learn:	0.0280775	total:	718msremaining:	40.2ms
5489	947:learn:	0.0280320	total:	719msremaining:	39.4ms
5490	948:learn:	0.0279838	total:	720msremaining:	38.7ms
5491	949:learn:	0.0279423	total:	720msremaining:	37.9ms
5492	950:learn:	0.0279097	total:	721msremaining:	37.1ms
5493	951:learn:	0.0278656	total:	722msremaining:	36.4ms
5494	952:learn:	0.0278063	total:	722msremaining:	35.6ms
5495	953:learn:	0.0277585	total:	723msremaining:	34.9ms
5496	954:learn:	0.0277106	total:	724msremaining:	34.1ms
5497	955:learn:	0.0276760	total:	725msremaining:	33.3ms
5498	956:learn:	0.0276410	total:	725msremaining:	32.6ms
5499	957:learn:	0.0275910	total:	726msremaining:	31.8ms
5500	958:learn:	0.0275611	total:	727msremaining:	31.1ms
5501	959:learn:	0.0274833	total:	727msremaining:	30.3ms
5502	960:learn:	0.0274406	total:	728msremaining:	29.5ms
5503	961:learn:	0.0274053	total:	729msremaining:	28.8ms
5504	962:learn:	0.0273628	total:	729msremaining:	28ms
5505	963:learn:	0.0273161	total:	730msremaining:	27.3ms
5506	964:learn:	0.0272799	total:	731msremaining:	26.5ms
5507	965:learn:	0.0272391	total:	731msremaining:	25.7ms
5508	966:learn:	0.0272020	total:	732msremaining:	25ms
5509	967:learn:	0.0271609	total:	733msremaining:	24.2ms
5510	968:learn:	0.0271196	total:	733msremaining:	23.5ms
5511	969:learn:	0.0270770	total:	734msremaining:	22.7ms
5512	970:learn:	0.0270072	total:	735msremaining:	22ms
5513	971:learn:	0.0269615	total:	736msremaining:	21.2ms
5514	972:learn:	0.0269260	total:	736msremaining:	20.4ms
5515	973:learn:	0.0268873	total:	737msremaining:	19.7ms
5516	974:learn:	0.0268491	total:	738msremaining:	18.9ms
5517	975:learn:	0.0268049	total:	738msremaining:	18.2ms
5518	976:learn:	0.0267573	total:	739msremaining:	17.4ms
5519	977:learn:	0.0267148	total:	740msremaining:	16.6ms
5520	978:learn:	0.0266797	total:	741msremaining:	15.9ms
5521	979:learn:	0.0266520	total:	741msremaining:	15.1ms
5522	980:learn:	0.0265750	total:	742msremaining:	14.4ms
5523	981:learn:	0.0265281	total:	743msremaining:	13.6ms
5524	982:learn:	0.0264870	total:	743msremaining:	12.9ms
5525	983:learn:	0.0264153	total:	744msremaining:	12.1ms
5526	984:learn:	0.0263793	total:	745msremaining:	11.3ms
5527	985:learn:	0.0263488	total:	745msremaining:	10.6ms
5528	986:learn:	0.0263038	total:	746msremaining:	9.82ms
5529	987:learn:	0.0262588	total:	747msremaining:	9.07ms
5530	988:learn:	0.0262256	total:	747msremaining:	8.31ms

demo

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5531 989:learn: 0.0261963 total: 748msremaining: 7.56ms
5532 990:learn: 0.0261576 total: 749msremaining: 6.8ms
5533 991:learn: 0.0261277 total: 749msremaining: 6.04ms
5534 992:learn: 0.0260965 total: 750msremaining: 5.29ms
5535 993:learn: 0.0260665 total: 751msremaining: 4.53ms
5536 994:learn: 0.0260310 total: 752msremaining: 3.78ms
5537 995:learn: 0.0259790 total: 752msremaining: 3.02ms
5538 996:learn: 0.0259402 total: 753msremaining: 2.27ms
5539 997:learn: 0.0258904 total: 754msremaining: 1.51ms
5540 998:learn: 0.0258511 total: 754msremaining: 755us
5541 999:learn: 0.0257659 total: 755msremaining: 0us
5542          DevNet          RF          CatB
5543 6_cardio      0.572856    0.7334    0.847772
5544 25_musk       1.0         1.0       0.999278
5545 26_optdigits  0.974521   0.933136  0.914885
5546 36_speech     0.614187   0.493655  0.497312
5547 40_vowels     0.883842   0.805545  0.885713
5548
5549 进程已结束,退出代码0
5550
```