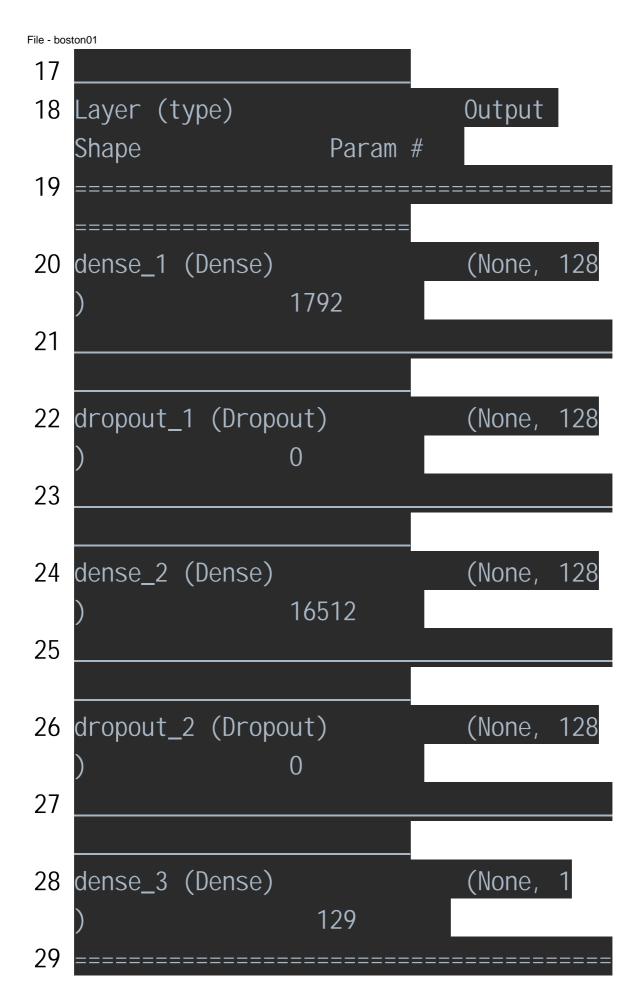
```
1 ssh: //root@103.254.67.181:10006/usr/bi n/
   python -u /home/sunfengzhen/pycharm/
   keras_regress/boston01.py
 2 Using TensorFlow backend.
 3 ###########Ioad dataset
   ################
 4 the type of train data is float64
 5 the shape of train data is (404, 13)
 6 the shape of train target is (404,)
 7 the type of train target is float64
8 train target[:10]: [19.7 23.1 13.5 21.2
   23.1 13.6 22.8 18.2 13.1 23.2]
9 the shape of test data is (102, 13)
10 the shape of test target is (102,)
11 #############data proecess
   #################
12 the shape of mean is (13,)
13 the shape of std is (13,)
14 ###########model train
  ###############
15 train_data.shape[1] =
16 model.metrics_names = ['loss',
   mean_absolute_error']
17
```



- 50Mi B
- 41 2019-05-30 03:05:42.625011: I tensorflow /core/common_runtime/gpu/gpu_device.cc:

1511] Adding visible gpu devices: 0 41 42 2019-05-30 03:05:43.057772: I tensorflow /core/common_runtime/gpu/gpu_device.cc: 982] Device interconnect StreamExecutor with strength 1 edge matrix: 43 2019-05-30 03:05:43.057835: I tensorflow /core/common_runtime/gpu/gpu_device.cc: 9881 44 2019-05-30 03:05:43.057846: I tensorflow /core/common_runtime/gpu/gpu_device.cc: 1001] 0: N 45 2019-05-30 03:05:43.058063: I tensorflow /core/common_runtime/gpu/gpu_device.cc: 1115] Created TensorFlow device (/job: localhost/replica: 0/task: 0/device: GPU: 0 with 75 MB memory) -> physical GPU (device: O, name: GeForce GTX 1080 Ti, pci bus id: 0000:82:00.0, compute capability: 6.1) - 1s - loss: 472.1427 -46 mean_absolute_error: 19.7587 - val_loss : 400.3796 - val_mean_absolute_error: 18 3051 Epoch 2/20000

```
- 0s - loss: 287.8999 -
48
   mean_absolute_error: 14.8768 - val_loss
   : 192.3928 - val_mean_absolute_error: 11
   9643
49 Epoch 3/20000
   - 0s - loss: 131.4740 -
50
   mean_absolute_error: 9.3908 - val_loss:
   81.0553 - val_mean_absolute_error: 6.
   8378
51 Epoch 4/20000
   - 0s - loss: 69.2562 -
52
   mean_absolute_error: 6.4052 - val_loss:
   53.9645 - val_mean_absolute_error: 4.
   9816
53 Epoch 5/20000
   - 0s - loss: 52.7122 -
54
   mean_absolute_error: 5.6535 - val_loss:
   48.3019 - val_mean_absolute_error: 4.
   5294
55 Epoch 6/20000
   - 0s - loss: 42.1389 -
56
   mean_absolute_error: 4.9215 - val_loss:
   42.3734 - val_mean_absolute_error: 4.
   1200
```

```
57 Epoch 7/20000
   - 0s - loss: 43.8107 -
58
   mean_absolute_error: 4.8901 - val_loss:
   38.5929 - val_mean_absolute_error: 3.
   8564
59 Epoch 8/20000
   - 0s - loss: 37.2228 -
60
   mean_absolute_error: 4.6484 - val_loss:
   37.2045 - val_mean_absolute_error: 3.
   7559
61 Epoch 9/20000
   - 0s - loss: 31.9039 -
62
   mean_absolute_error: 4.3431 - val_loss:
   35.3884 - val_mean_absolute_error: 3.
   5951
63 Epoch 10/20000
   - 0s - loss: 36.3089 -
64
   mean_absolute_error: 4.6043 - val_loss:
   37.7841 - val_mean_absolute_error: 3.
   8181
65
66 Epoch 00010: saving model to ./model/
   model_best.h5
67 Epoch 11/20000
```

```
- 0s - loss: 38.4507 -
68
   mean_absolute_error: 4.5976 - val_loss:
   31.4657 - val_mean_absolute_error: 3.
   3499
69 Epoch 12/20000
70 - 0s - loss: 29.8753 -
   mean_absolute_error: 3.9985 - val_loss:
   30.7914 - val_mean_absolute_error: 3.
   2912
71 Epoch 13/20000
   - 0s - loss: 37.3550 -
72
   mean_absolute_error: 4.5370 - val_loss:
   31.4182 - val_mean_absolute_error: 3.
   2826
73 Epoch 14/20000
   - 0s - loss: 30.9930 -
74
   mean_absolute_error: 4.1945 - val_loss:
   31.0992 - val_mean_absolute_error: 3.
   2307
75 Epoch 15/20000
   - Os - Toss: 30.5813 -
76
   mean_absolute_error: 4.3021 - val_loss:
   30.4526 - val_mean_absolute_error: 3.
   1749
```

```
77 Epoch 16/20000
   - 0s - loss: 31.9391 -
78
   mean_absolute_error: 4.3353 - val_loss
     33.8185 - val_mean_absolute_error: 3.
   5297
79 Epoch 17/20000
80 - 0s - loss: 29.8940 -
   mean_absolute_error: 4.0783 - val_loss
    27.7746 - val_mean_absolute_error: 3.
   0059
81 Epoch 18/20000
   - Os - Loss: 29.3257 -
82 I
   mean_absolute_error: 4.1870 - val_loss
     37. 1937 - val_mean_absolute_error: 3.
   8448
83 Epoch 19/20000
84 - 0s - loss: 31.7509 -
   mean_absolute_error: 4.2485 - val_loss
    28.9370 - val_mean_absolute_error: 3.
   0536
85 Epoch 20/20000
86 - 0s - loss: 30.4463 -
   mean_absolute_error: 4.0941 - val_loss
    28.7302 - val_mean_absolute_error: 3.
```

96 - 0s - loss: 28.0857 - mean_absolute_error: 3.8883 - val_loss : 28.0272 - val_mean_absolute_error: 2.9903

mean_absolute_error: 3.5516 - val_loss : 25.8558 - val_mean_absolute_error: 2.

8711

99 Epoch 26/20000

100 - 0s - loss: 27.4444 - mean_absolute_error: 4.0004 - val_loss : 24.9647 - val_mean_absolute_error: 2.8695

101 Epoch 27/20000

102 - Os - Loss: 25.7272 - mean_absolute_error: 3.8053 - val_loss : 24.3580 - val_mean_absolute_error: 2.9656

103 Epoch 28/20000

104 - 0s - loss: 30.7221 - mean_absolute_error: 4.1707 - val_loss : 26.8207 - val_mean_absolute_error: 3.0973

105 Epoch 29/20000

106 - Os - Loss: 28.1079 - mean_absolute_error: 4.0856 - val_loss : 23.8444 - val_mean_absolute_error: 2.

```
File - boston01
106 8722
107 Epoch 30/20000
     - 0s - loss: 26.9132 -
108
    mean_absolute_error: 3.8539 - val_loss
      29.6736 - val_mean_absolute_error: 3.
    3038
109
110 Epoch 00030: saving model to ./model/
    model_best.h5
111 Epoch 31/20000
112 - 0s - loss: 30.8663 -
    mean_absolute_error: 4.1469 - val_loss
      25.3305 - val_mean_absolute_error: 2.
    9172
113 Epoch 32/20000
114 - 0s - loss: 22.8632 -
    mean_absolute_error: 3.6746 - val_loss
     28.0418 - val_mean_absolute_error: 2.
    9354
115 Epoch 33/20000
116 - 0s - loss: 24.2444 -
    mean_absolute_error: 3.7633 - val_loss
     24.0915 - val_mean_absolute_error: 2.
    7985
```

```
117 Epoch 34/20000
    - 0s - loss: 24.9685 -
118
    mean_absolute_error: 3.7485 - val_loss
      24.8973 - val_mean_absolute_error: 2.
    7856
119 Epoch 35/20000
120 - 0s - loss: 27.2516 -
    mean_absolute_error: 3.9313 - val_loss
      25.8804 - val_mean_absolute_error: 2.
    8696
121 Epoch 36/20000
    - 0s - loss: 25.0571 -
122 l
    mean_absolute_error: 3.8032 - val_loss
      25.8311 - val_mean_absolute_error: 2.
    9230
123 Epoch 37/20000
124 - 0s - loss: 27.2825 -
    mean_absolute_error: 3.9130 - val_loss
     24.0092 - val_mean_absolute_error: 2.
    8439
125 Epoch 38/20000
126 - Os - Loss: 22.9594
    mean_absolute_error: 3.6248 - val_loss
     23.8915 - val_mean_absolute_error: 2.
```

0047

```
137 Epoch 43/20000
    - 0s - loss: 28.8037 -
138
    mean_absolute_error: 3.8004 - val_loss
     22.9933 - val_mean_absolute_error: 2.
    8162
139 Epoch 44/20000
140 - 0s - loss: 23.6660 -
    mean_absolute_error: 3.7549 - val_loss
     24.0923 - val_mean_absolute_error: 2.
    8414
141 Epoch 45/20000
142 - 0s - loss: 23.1724 -
    mean_absolute_error: 3.7033 - val_loss
     23.4226 - val_mean_absolute_error: 2.
    8576
143 Epoch 46/20000
144 - 0s - loss: 22.7443 -
    mean_absolute_error: 3.6182 - val_loss
     22.8673 - val_mean_absolute_error: 2.
    8649
145 Epoch 47/20000
146 - 0s - loss: 25.5844
    mean_absolute_error: 3.6639 - val_loss
     23.3977 - val_mean_absolute_error: 2.
```

8856

23.3488 - val_mean_absolute_error: 2.

```
157 Epoch 52/20000
    - 0s - loss: 23.8339 -
158
    mean_absolute_error: 3.7009 - val_loss
      23.4970 - val_mean_absolute_error: 2.
    7693
159 Epoch 53/20000
160 - 0s - loss: 27.0363 -
    mean_absolute_error: 3.7698 - val_loss
      22.1450 - val_mean_absolute_error: 2.
    7525
161 Epoch 54/20000
    - 0s - loss: 23.6073 -
162 l
    mean_absolute_error: 3.5622 - val_loss
      23.6491 - val_mean_absolute_error: 2.
    8584
163 Epoch 55/20000
164 - 0s - loss: 25.0366 -
    mean_absolute_error: 3.6611 - val_loss
     21.9576 - val_mean_absolute_error: 2.
    8667
165 Epoch 56/20000
166 - Os - Loss: 22,6918 -
    mean_absolute_error: 3.4959 - val_loss
     22.6662 - val_mean_absolute_error: 2.
```

model_best.h5

```
177 Epoch 61/20000
    - 0s - loss: 24.0104 -
178
    mean_absolute_error: 3.5525 - val_loss
      24.5297 - val_mean_absolute_error: 2.
    8268
179 Epoch 62/20000
180 - 0s - loss: 21.9356 -
    mean_absolute_error: 3.5834 - val_loss
      21.9944 - val_mean_absolute_error: 2.
    7772
181 Epoch 63/20000
    - 0s - loss: 21.9606 -
182 l
    mean_absolute_error: 3.4460 - val_loss
      24.8184 - val_mean_absolute_error: 2.
    8433
183 Epoch 64/20000
184 - 0s - loss: 25.6707 -
    mean_absolute_error: 3.7777 - val_loss
     23.6184 - val_mean_absolute_error: 2.
    8459
185 Epoch 65/20000
    - 0s - loss: 22.0596 -
186 l
    mean_absolute_error: 3.5987 - val_loss
     22.8327 - val_mean_absolute_error: 2.
```

```
23.8777 - val_mean_absolute_error: 2.
196
197
198 Epoch 00070: saving model to ./model/
    model_best.h5
199 Epoch 71/20000
    - Os - Loss: 24.1428 -
200
    mean_absolute_error: 3.7083 - val_loss
      25.3714 - val_mean_absolute_error: 2.
    8762
201 Epoch 72/20000
    - 0s - loss: 20.3689 -
202 l
    mean_absolute_error: 3.5087 - val_loss
     23.6258 - val_mean_absolute_error: 2.
    9111
203 Epoch 73/20000
204 - 0s - loss: 20.6089 -
    mean_absolute_error: 3.3468 - val_loss
     25.3773 - val_mean_absolute_error: 2.
    9156
205 Epoch 74/20000
    - 0s - loss: 20.1102 -
206 l
    mean_absolute_error: 3.3342 - val_loss
     25.3118 - val_mean_absolute_error: 2.
```

```
21.4940 - val_mean_absolute_error: 2.
216
    8260
217 Epoch 80/20000
    - 0s - loss: 23.7068 -
218
    mean_absolute_error: 3.4637 - val_loss
    : 21.5367 - val_mean_absolute_error: 2.
    7122
219
   Epoch 00080: saving model to ./model/
    model best.h5
221 Epoch 81/20000
    - 0s - loss: 22.2927 -
222 I
    mean_absolute_error: 3.5073 - val_loss
      22. 1869 - val_mean_absolute_error: 2.
    7637
223 Epoch 82/20000
224 - 0s - loss: 22.4841 -
    mean_absolute_error: 3.5155 - val_loss
    : 20.7436 - val_mean_absolute_error: 2.
    7134
225 Epoch 83/20000
    - 0s - loss: 21.2681
226
    mean_absolute_error: 3.3712 - val_loss
     21.4964 - val_mean_absolute_error: 2.
```

```
22.2420 - val_mean_absolute_error: 3.
236
    0147
237 Epoch 89/20000
    - 0s - loss: 24.0785 -
238 I
    mean_absolute_error: 3.5409 - val_loss
      22.3548 - val_mean_absolute_error: 2.
    7546
239 Epoch 90/20000
    - 0s - loss: 19.1989 -
240
    mean_absolute_error: 3.2712 - val_loss
     24.7946 - val_mean_absolute_error: 2.
    8062
241
242 Epoch 00090: saving model to ./model/
    model_best.h5
243 Epoch 91/20000
244 - 0s - loss: 19.8641 -
    mean_absolute_error: 3.3356 - val_loss
    : 21.7811 - val_mean_absolute_error: 2.
    7557
245 Epoch 92/20000
    - 0s - loss: 22.5006 -
246 l
    mean_absolute_error: 3.4182 - val_loss
     21.8095 - val_mean_absolute_error: 2.
```

```
: 21.6112 - val_mean_absolute_error: 2.
256
    7070
257 Epoch 98/20000
    - 0s - loss: 23.0645 -
258
    mean_absolute_error: 3.4452 - val_loss
    : 21.6945 - val_mean_absolute_error: 2.
    7323
259 Epoch 99/20000
260
    - 0s - loss: 19.7420 -
    mean_absolute_error: 3.2889 - val_loss
      22.1369 - val_mean_absolute_error: 2.
    8473
261 Epoch 100/20000
    - Os - loss: 24.8248 -
262
    mean_absolute_error: 3.6185 - val_loss
      22.0884 - val_mean_absolute_error: 2.
    8117
263
   Epoch 00100: saving model to ./model/
    model_best.h5
265 Epoch 101/20000
    - 0s - loss: 21.0698 -
266 I
    mean_absolute_error: 3.3274 - val_loss
     21.4449 - val_mean_absolute_error: 2.
```

mean_absolute_error: 3.5586 - val_l<u>oss</u>

```
21.6705 - val_mean_absolute_error: 2.
276
    7049
277 Epoch 107/20000
    - 0s - loss: 22.8055 -
278 I
    mean_absolute_error: 3.4731 - val_loss
      20.6307 - val_mean_absolute_error: 2.
    8244
279 Epoch 108/20000
    - 0s - loss: 19.9695 -
280
    mean_absolute_error: 3.2941 - val_loss
      21.4859 - val_mean_absolute_error: 2.
    7346
281 Epoch 109/20000
    - 0s - loss: 22.8525 -
282 l
    mean_absolute_error: 3.4221 - val_loss
      20.8932 - val_mean_absolute_error: 2.
    8171
283 Epoch 110/20000
    - 0s - loss: 17.8199 -
284 I
    mean_absolute_error: 3.3132 - val_loss
      21.4065 - val_mean_absolute_error: 2.
    8101
285
    Epoch 00110: saving model to ./model/
286
```

295 Epoch 115/20000

7308

296 - Os - Loss: 23.6712 - mean_absolute_error: 3.5404 - val_loss

```
20.8677 - val_mean_absolute_error: 2.
296
    6834
297 Epoch 116/20000
    - 0s - loss: 22.6466 -
298
    mean_absolute_error: 3.4119 - val_loss
    : 21.0182 - val_mean_absolute_error: 2.
    6934
299 Epoch 117/20000
300
    - 0s - loss: 22.3265 -
    mean_absolute_error: 3.4087 - val_loss
      20.8223 - val_mean_absolute_error: 2.
    6777
301 Epoch 118/20000
    - 0s - loss: 20.2954 -
302
    mean_absolute_error: 3.3032 - val_loss
      20.2242 - val_mean_absolute_error: 2.
    9686
303 Epoch 119/20000
    - 0s - loss: 21.2617 -
304 I
    mean_absolute_error: 3.4494 - val_loss
      20.3599 - val_mean_absolute_error: 2.
    7851
305 Epoch 120/20000
    - 0s - loss: 18.4392
306 l
```

```
306 mean_absolute_error: 3.2944 - val_loss
      21.1889 - val_mean_absolute_error: 2.
    6951
307
308 Epoch 00120: saving model to ./model/
    model_best.h5
309 Epoch 121/20000
310 - 0s - loss: 18.3812 -
    mean_absolute_error: 3.1842 - val_loss
      22.6915 - val_mean_absolute_error: 2.
    7102
311 Epoch 122/20000
312 - 0s - loss: 20.8556 -
    mean_absolute_error: 3.3151 - val_loss
     20.5509 - val_mean_absolute_error: 2.
    7056
313 Epoch 123/20000
314 - 0s - loss: 20.0293 -
    mean_absolute_error: 3.3303 - val_loss
     21.9892 - val_mean_absolute_error: 2.
    7114
315 Epoch 124/20000
316 - 0s - loss: 20.5347 -
    mean_absolute_error: 3.2468 - val_loss
```

```
22.0288 - val_mean_absolute_error: 2.
316
    7133
317 Epoch 125/20000
    - 0s - loss: 20.9747 -
318
    mean_absolute_error: 3.4686 - val_loss
    : 21.6523 - val_mean_absolute_error: 2.
    6964
319 Epoch 126/20000
320
    - 0s - loss: 18.6053 -
    mean_absolute_error: 3.3538 - val_loss
      23.1394 - val_mean_absolute_error: 2.
    7837
321 Epoch 127/20000
    - 0s - loss: 19.4174 -
322
    mean_absolute_error: 3.3816 - val_loss
      20.1330 - val_mean_absolute_error: 2.
    6610
323 Epoch 128/20000
    - Os - Loss: 19.4734 -
324
    mean_absolute_error: 3.3013 - val_loss
      20.7655 - val_mean_absolute_error: 2.
    7070
325 Epoch 129/20000
    - 0s - loss: 20.2458
326
```

```
326 mean_absolute_error: 3.1946 - val_loss
      22.2630 - val_mean_absolute_error: 2.
    7726
327 Epoch 130/20000
    - 0s - loss: 18.7001 -
328
    mean_absolute_error: 3.2262 - val_loss
      22.1349 - val_mean_absolute_error: 2.
    7336
329
   Epoch 00130: saving model to ./model/
330
    model_best.h5
331 Epoch 131/20000
    - 0s - loss: 22.4491
332
    mean_absolute_error: 3.3862 - val_loss
     21.2209 - val_mean_absolute_error: 2.
    6707
333 Epoch 132/20000
    - 0s - loss: 19.8488 -
334
    mean_absolute_error: 3.2422 - val_loss
      22.5624 - val_mean_absolute_error: 2.
    7438
335 Epoch 133/20000
    - 0s - loss: 19.3974 -
336
    mean_absolute_error: 3.1182 - val_loss
```

```
21.7018 - val_mean_absolute_error: 2.
336
    7143
337 Epoch 134/20000
    - 0s - loss: 14.9958 -
338
    mean_absolute_error: 3.0475 - val_loss
    : 21.3323 - val_mean_absolute_error: 2.
    8905
339 Epoch 135/20000
340
    - 0s - loss: 22.3894 -
    mean_absolute_error: 3.5265 - val_loss
      22.2910 - val_mean_absolute_error: 2.
    8405
341 Epoch 136/20000
    - Os - loss: 24.6543 -
342 l
    mean_absolute_error: 3.4781 - val_loss
      20.6235 - val_mean_absolute_error: 2.
    8314
343 Epoch 137/20000
    - 0s - loss: 18.2215 -
344
    mean_absolute_error: 3.2659 - val_loss
      21.4280 - val_mean_absolute_error: 2.
    7412
345 Epoch 138/20000
    - 0s - loss: 19.6760 -
346 l
```

```
346 mean_absolute_error: 3.2839 - val_loss
      21.7840 - val_mean_absolute_error: 2.
    7473
347 Epoch 139/20000
    - 0s - loss: 16.5172 -
348
    mean_absolute_error: 3.1387 - val_loss
      20. 1846 - val_mean_absolute_error: 2.
    9035
349 Epoch 140/20000
    - 0s - loss: 21.3050 -
350
    mean_absolute_error: 3.4110 - val_loss
      20.5182 - val_mean_absolute_error: 2.
    6577
351
352 Epoch 00140: saving model to ./model/
    model_best.h5
353 Epoch 141/20000
354 - 0s - loss: 18.9511 -
    mean_absolute_error: 3.3644 - val_loss
     20.4164 - val_mean_absolute_error: 2.
    6834
355 Epoch 142/20000
    - 0s - loss: 18.4971 -
356 l
    mean_absolute_error: 3.2987 - val_loss
```

```
22.9097 - val_mean_absolute_error: 2.
356
    7748
357 Epoch 143/20000
    - 0s - loss: 20.0823 -
358
    mean_absolute_error: 3.2866 - val_loss
     21.2912 - val_mean_absolute_error: 2.
    7680
359 Epoch 144/20000
360
    - 0s - loss: 18.1401 -
    mean_absolute_error: 3.2106 - val_loss
     21.7691 - val_mean_absolute_error: 2.
    7083
361 Epoch 145/20000
    - 0s - loss: 17.1237 -
362
    mean_absolute_error: 2.9195 - val_loss
      23.1710 - val_mean_absolute_error: 2.
    8946
363 Epoch 146/20000
    - 0s - loss: 21.4023 -
364
    mean_absolute_error: 3.5144 - val_loss
      20.4775 - val_mean_absolute_error: 2.
    6889
365 Epoch 147/20000
    - 0s - loss: 17.2281
366 l
```

```
366 mean_absolute_error: 3.1493 - val_loss
      20.7745 - val_mean_absolute_error: 2.
    7937
367 Epoch 148/20000
    - 0s - loss: 19.0895 -
368
    mean_absolute_error: 3.0256 - val_loss
      20.5122 - val_mean_absolute_error: 2.
    5935
369 Epoch 149/20000
370 - 0s - loss: 21.0541 -
    mean_absolute_error: 3.2971 - val_loss
     20.3853 - val_mean_absolute_error: 2.
    6519
371 Epoch 150/20000
    - 0s - loss: 15.4506 -
372
    mean_absolute_error: 2.9545 - val_loss
      22.0780 - val_mean_absolute_error: 2.
    6651
373
   Epoch 00150: saving model to ./model/
374
    model_best.h5
375 Epoch 151/20000
376
    - 0s - loss: 19.5773 -
    mean_absolute_error: 3.2605 - val_loss
```

```
22.7570 - val_mean_absolute_error: 2.
376
    7368
377 Epoch 152/20000
    - 0s - loss: 21.8368 -
378
    mean_absolute_error: 3.4168 - val_loss
     23.0134 - val_mean_absolute_error: 2.
    7868
379 Epoch 153/20000
380
    - 0s - loss: 19.8298 -
    mean_absolute_error: 3.2556 - val_loss
      20.9597 - val_mean_absolute_error: 2.
    6723
381 Epoch 154/20000
    - 0s - loss: 20.5510 -
382
    mean_absolute_error: 3.3003 - val_loss
     21.8436 - val_mean_absolute_error: 2.
    6743
383 Epoch 155/20000
    - 0s - loss: 19.2520 -
384 l
    mean_absolute_error: 3.3358 - val_loss
      21.6905 - val_mean_absolute_error: 2.
    7526
385 Epoch 156/20000
    - 0s - loss: 21.4642
386
```

```
386 mean_absolute_error: 3.4830 - val_loss
      20.9052 - val_mean_absolute_error: 2.
    9379
387 Epoch 157/20000
    - 0s - loss: 19.7403 -
388
    mean_absolute_error: 3.2713 - val_loss
      22.4781 - val_mean_absolute_error: 2.
    6744
389 Epoch 158/20000
    - Os - Loss: 21.3529 -
390
    mean_absolute_error: 3.4340 - val_loss
     19.9376 - val_mean_absolute_error: 2.
    6406
391 Epoch 159/20000
    - 0s - loss: 19.7067 -
392
    mean_absolute_error: 3.3373 - val_loss
    19.9523 - val_mean_absolute_error: 2.
    7109
393 Epoch 160/20000
    - Os - Loss: 19.1979 -
394
    mean_absolute_error: 3.2104 - val_loss
     19.7686 - val_mean_absolute_error: 2.
    8103
```

395

```
396 Epoch 00160: saving model to ./model/
    model best.h5
397 Epoch 161/20000
    - 0s - loss: 14.8499 -
398
    mean_absolute_error: 2.9124 - val_loss
    : 19.7579 - val_mean_absolute_error: 2.
    6827
399 Epoch 162/20000
400
    - 0s - loss: 19.5230 -
    mean_absolute_error: 3.3522 - val_loss
    20.0727 - val_mean_absolute_error: 2.
    8504
401 Epoch 163/20000
    - 0s - loss: 20.3687 -
402
    mean_absolute_error: 3.3401 - val_loss
     21.9695 - val_mean_absolute_error: 2.
    7381
403 Epoch 164/20000
    - 0s - loss: 19.2310 -
404
    mean_absolute_error: 3.2076 - val_loss
     19.9703 - val_mean_absolute_error: 2.
    6595
405 Epoch 165/20000
    - 0s - loss: 20.1812 -
406 l
```

```
406 mean_absolute_error: 3.0525 - val_loss
      22.9222 - val_mean_absolute_error: 2.
    7309
407 Epoch 166/20000
    - 0s - loss: 18.6059 -
408 l
    mean_absolute_error: 3.1890 - val_loss
      22. 4299 - val_mean_absolute_error: 2.
    6994
409 Epoch 167/20000
410 - 0s - loss: 17.4028 -
    mean_absolute_error: 3.0932 - val_loss
     20.4610 - val_mean_absolute_error: 2.
    6616
411 Epoch 168/20000
    - 0s - loss: 20.4769 -
412 I
    mean_absolute_error: 3.3265 - val_loss
     19.8273 - val_mean_absolute_error: 2.
    5684
413 Epoch 169/20000
414 - 0s - loss: 19.5983 -
    mean_absolute_error: 3.3002 - val_loss
     20.0427 - val_mean_absolute_error: 2.
    5779
415 Epoch 170/20000
```

```
- 0s - loss: 17.4060 -
416
    mean_absolute_error: 3.0345 - val_loss
      20.6369 - val_mean_absolute_error: 2.
    6461
417
   Epoch 00170: saving model to ./model/
418
    model_best.h5
419 Epoch 171/20000
    - 0s - loss: 19.9716 -
420
    mean_absolute_error: 3.2432 - val_loss
    19.2184 - val_mean_absolute_error: 2.
    7642
421 Epoch 172/20000
    - 0s - loss: 20.6859 -
422
    mean_absolute_error: 3.3873 - val_loss
      21.2802 - val_mean_absolute_error: 2.
    6755
423 Epoch 173/20000
    - 0s - loss: 20.2758 -
424
    mean_absolute_error: 3.3974 - val_loss
      20.6273 - val_mean_absolute_error: 2.
    7803
425 Epoch 174/20000
    - 0s - loss: 20.8497
426
```

```
426 mean_absolute_error: 3.2145 - val_loss
      20.7933 - val_mean_absolute_error: 2.
    8559
427 Epoch 175/20000
    - 0s - loss: 18.5730 -
428 I
    mean_absolute_error: 3.1959 - val_loss
      20. 1535 - val_mean_absolute_error: 2.
    7141
429 Epoch 176/20000
430 - 0s - loss: 18.2220 -
    mean_absolute_error: 3.1773 - val_loss
     24.0592 - val_mean_absolute_error: 3.
    0029
431 Epoch 177/20000
    - 0s - loss: 16.5213 -
432
    mean_absolute_error: 3.0346 - val_loss
      18.9942 - val_mean_absolute_error: 2.
    6483
433 Epoch 178/20000
434 - 0s - loss: 18.0580 -
    mean_absolute_error: 3.0175 - val_loss
     19.5120 - val_mean_absolute_error: 2.
    6367
435 Epoch 179/20000
```

```
- 0s - loss: 16.9497 -
436
    mean_absolute_error: 3.1882 - val_loss
      19.6941 - val_mean_absolute_error: 2.
    6344
437 Epoch 180/20000
    - 0s - loss: 17.3684 -
438
    mean_absolute_error: 3.1776 - val_loss
      20. 2540 - val_mean_absolute_error: 2.
    7043
439
440 Epoch 00180: saving model to ./model/
    model_best.h5
441 Epoch 181/20000
    - 0s - loss: 15.4660 -
442
    mean_absolute_error: 3.0419 - val_loss
      20.3625 - val_mean_absolute_error: 2.
    7045
443 Epoch 182/20000
    - 0s - loss: 19.6253 -
444 I
    mean_absolute_error: 3.1149 - val_loss
      20. 0106 - val_mean_absolute_error: 2.
    7347
445 Epoch 183/2000
    - 0s - loss: 17.1225
446
```

```
446 mean_absolute_error: 3.0169 - val_loss
      21.0412 - val_mean_absolute_error: 2.
    6430
447 Epoch 184/20000
    - 0s - loss: 19.5205 -
448
    mean_absolute_error: 3.1412 - val_loss
     19.9521 - val_mean_absolute_error: 2.
    6061
449 Epoch 185/20000
    - 0s - loss: 19.7085 -
450
    mean_absolute_error: 3.1778 - val_loss
     19.3898 - val_mean_absolute_error: 2.
    6704
451 Epoch 186/20000
    - 0s - loss: 17.6587
452
    mean_absolute_error: 3.0617 - val_loss
      20.5339 - val_mean_absolute_error: 2.
    6477
453 Epoch 187/20000
454 - 0s - loss: 17.5240 -
    mean_absolute_error: 3.1257 - val_loss
     18.8896 - val_mean_absolute_error: 2.
    6871
455 Epoch 188/20000
```

```
- 0s - loss: 18.3024 -
456
    mean_absolute_error: 3.1566 - val_loss
      19.6619 - val_mean_absolute_error: 2.
    6688
457 Epoch 189/20000
458
    - Os - Loss: 17.9237 -
    mean_absolute_error: 3.1855 - val_loss
     19.6006 - val_mean_absolute_error: 2.
    7879
459 Epoch 190/20000
    - 0s - loss: 16.5934 -
460
    mean_absolute_error: 3.0509 - val_loss
      20.2038 - val_mean_absolute_error: 2.
    6148
461
   Epoch 00190: saving model to ./model/
    model_best.h5
463 Epoch 191/20000
    - 0s - loss: 18.9273 -
464
    mean_absolute_error: 3.2780 - val_loss
      19.1962 - val_mean_absolute_error: 2.
    7905
465 Epoch 192/20000
466
    - 0s - loss: 20.9989
```

```
466 mean_absolute_error: 3.2853 - val_loss
      19.3780 - val_mean_absolute_error: 2.
    7781
467 Epoch 193/20000
    - 0s - loss: 18.6298 -
468
    mean_absolute_error: 3.0392 - val_loss
      20.5238 - val_mean_absolute_error: 2.
    6703
469 Epoch 194/20000
470 - 0s - loss: 17.1664 -
    mean_absolute_error: 3.0968 - val_loss
     20.6656 - val_mean_absolute_error: 2.
    6552
471 Epoch 195/20000
    - 0s - loss: 19.4565 -
472 l
    mean_absolute_error: 3.2165 - val_loss
    19.8507 - val_mean_absolute_error: 2.
    6306
473 Epoch 196/20000
474 - 0s - loss: 18.6009 -
    mean_absolute_error: 3.1638 - val_loss
     19.4972 - val_mean_absolute_error: 2.
    7707
   Epoch 197/20000
475
```

```
- 0s - loss: 20.4362 -
476
    mean_absolute_error: 3.2307 - val_loss
      21.1564 - val_mean_absolute_error: 2.
    7123
477 Epoch 198/20000
    - Os - loss: 17.4815 -
478 l
    mean_absolute_error: 3.2418 - val_loss
      21.5630 - val_mean_absolute_error: 2.
    7493
479 Epoch 199/20000
    - 0s - loss: 17.1658 -
480 l
    mean_absolute_error: 3.0938 - val_loss
      21.7086 - val_mean_absolute_error: 2.
    7456
481 Epoch 200/20000
482
     - 0s - loss: 20.2599 -
    mean_absolute_error: 3.3396 - val_loss
     19.8386 - val_mean_absolute_error: 2.
    6232
483
    Epoch 00200: saving model to ./model/
484
    model_best.h5
485 Epoch 201/20000
    - 0s - loss: 18.2377
486
```

```
486 mean_absolute_error: 3.1654 - val_loss
     19.8406 - val_mean_absolute_error: 2.
    6302
487 Epoch 202/20000
    - 0s - loss: 16.1135 -
488
    mean_absolute_error: 3.0984 - val_loss
     19.6849 - val_mean_absolute_error: 2.
    6896
489 Epoch 203/20000
490 - 0s - loss: 18.9491 -
    mean_absolute_error: 3.1484 - val_loss
    19.2105 - val_mean_absolute_error: 2.
    6052
491 Epoch 204/20000
    - 0s - loss: 16.7521 -
492
    mean_absolute_error: 3.0311 - val_loss
    18.9845 - val_mean_absolute_error: 2.
    6303
493 Epoch 205/20000
    - 0s - loss: 15.4237 -
494
    mean_absolute_error: 2.9170 - val_loss
    : 18.7637 - val_mean_absolute_error: 2.
    7009
495 Epoch 206/20000
```

```
- 0s - loss: 16.8191 -
496
    mean_absolute_error: 3.0902 - val_loss
     18.8491 - val_mean_absolute_error: 2.
    7516
497 Epoch 207/20000
    - Os - Loss: 17.2759 -
498
    mean_absolute_error: 3.1824 - val_loss
     20.8879 - val_mean_absolute_error: 2.
    6945
499 Epoch 208/20000
    - 0s - loss: 18.3932 -
500 l
    mean_absolute_error: 3.1178 - val_loss
     21.5577 - val_mean_absolute_error: 2.
    7814
501 Epoch 209/20000
    - 0s - loss: 18.5061 -
502
    mean_absolute_error: 3.1468 - val_loss
     20.0852 - val_mean_absolute_error: 2.
    6618
503 Epoch 210/20000
    - 0s - loss: 17.0840 -
504
    mean_absolute_error: 3.0705 - val_loss
    19.3043 - val_mean_absolute_error: 2.
    6526
```

```
505
   Epoch 00210: saving model to ./model/
506
    model_best.h5
507 Epoch 211/20000
    - 0s - loss: 17.3477 -
508
    mean_absolute_error: 3.0815 - val_loss
      18. 2565 - val_mean_absolute_error: 2.
    7477
509 Epoch 212/20000
510 - 0s - loss: 16.4818 -
    mean_absolute_error: 2.9275 - val_loss
     18.6905 - val_mean_absolute_error: 2
    7157
511 Epoch 213/20000
    - 0s - loss: 17.9319 -
512
    mean_absolute_error: 3.0356 - val_loss
    19.6900 - val_mean_absolute_error: 2.
    8211
513 Epoch 214/20000
514 - 0s - Ioss: 17.8471 -
    mean_absolute_error: 3.1104 - val_loss
     20.1675 - val_mean_absolute_error: 2.
    7988
515 Epoch 215/20000
```

```
- 0s - loss: 17.7460 -
516
    mean_absolute_error: 3.0067 - val_loss
     19.7834 - val_mean_absolute_error: 2.
    6366
517 Epoch 216/20000
518 - 0s - loss: 20.6808 -
    mean_absolute_error: 3.2662 - val_loss
     19.4130 - val_mean_absolute_error: 2.
    6400
519 Epoch 217/20000
    - 0s - loss: 17.7204 -
520 I
    mean_absolute_error: 3.1731 - val_loss
    : 19.6153 - val_mean_absolute_error: 2.
    6717
521 Epoch 218/20000
    - 0s - loss: 17.5301 -
522
    mean_absolute_error: 3.0754 - val_loss
    19.3334 - val_mean_absolute_error: 2.
    5888
523 Epoch 219/20000
    - 0s - loss: 18.0066 -
524
    mean_absolute_error: 3.0897 - val_loss
      18.8740 - val_mean_absolute_error: 2.
```

```
525 Epoch 220/20000
    - 0s - loss: 16.9186 -
526
    mean_absolute_error: 2.9872 - val_loss
      18.4786 - val_mean_absolute_error: 2.
    5558
527
   Epoch 00220: saving model to ./model/
528
    model_best.h5
529 Epoch 221/20000
530 - 0s - loss: 20.0516 -
    mean_absolute_error: 3.2274 - val_loss
    18.3444 - val_mean_absolute_error: 2.
    6611
531 Epoch 222/20000
    - 0s - loss: 16.6823 -
532
    mean_absolute_error: 2.9616 - val_loss
      20.1348 - val_mean_absolute_error: 2.
    6284
533 Epoch 223/20000
534 - Os - Loss: 17.5402 -
    mean_absolute_error: 3.0497 - val_loss
    19.9685 - val_mean_absolute_error: 2.
    7058
535 Epoch 224/20000
```

```
- 0s - loss: 15.7222 -
536
    mean_absolute_error: 2.8658 - val_loss
     18.9854 - val_mean_absolute_error: 2.
    6380
537 Epoch 225/20000
538 - Os - Loss: 15.7622 -
    mean_absolute_error: 3.0401 - val_loss
    : 19.8085 - val_mean_absolute_error: 2.
    6514
539 Epoch 226/20000
540 - 0s - loss: 16.9767 -
    mean_absolute_error: 3.0221 - val_loss
    : 19.3338 - val_mean_absolute_error: 2.
    5961
541 Epoch 227/20000
    - 0s - loss: 17.0629 -
542
    mean_absolute_error: 3.0621 - val_loss
    19.7063 - val_mean_absolute_error: 2.
    6400
543 Epoch 228/20000
    - 0s - loss: 18.0748 -
544
    mean_absolute_error: 3.1568 - val_loss
     18.7121 - val_mean_absolute_error: 2.
    6845
```

```
545 Epoch 229/20000
    - Os - Loss: 17.3223 -
546
    mean_absolute_error: 3.0767 - val_loss
      18.7194 - val_mean_absolute_error: 2.
    6829
547 Epoch 230/20000
548 - 0s - loss: 18.0074 -
    mean_absolute_error: 3.1385 - val_loss
      20.3514 - val_mean_absolute_error: 2.
    6920
549
550 Epoch 00230: saving model to ./model/
    model_best.h5
551 Epoch 231/20000
    - 0s - loss: 18.2868 -
552
    mean_absolute_error: 3.0488 - val_loss
    19.8150 - val_mean_absolute_error: 2.
    6793
553 Epoch 232/20000
554 - Os - Loss: 16.3645 -
    mean_absolute_error: 3.0458 - val_loss
     19.7210 - val_mean_absolute_error: 2.
    6393
555 Epoch 233/20000
```

```
- 0s - loss: 19.8254 -
556
    mean_absolute_error: 3.1488 - val_loss
      20.4159 - val_mean_absolute_error: 2.
    8369
557 Epoch 234/20000
558
    - 0s - loss: 18.9816 -
    mean_absolute_error: 3.1178 - val_loss
      20.1650 - val_mean_absolute_error: 2.
    6419
559 Epoch 235/20000
    - 0s - loss: 17.3536 -
560 l
    mean_absolute_error: 2.9859 - val_loss
    : 19.5177 - val_mean_absolute_error: 2.
    7515
561 Epoch 236/20000
    - 0s - loss: 20.1082 -
562
    mean_absolute_error: 3.2929 - val_loss
    : 19.4563 - val_mean_absolute_error: 2.
    7337
563 Epoch 237/20000
    - 0s - loss: 18.0877 -
564
    mean_absolute_error: 3.0991 - val_loss
     20.4828 - val_mean_absolute_error: 2.
    6591
```

```
565 Epoch 238/20000
    - 0s - loss: 17.2972 -
566
    mean_absolute_error: 2.9942 - val_loss
     19.7534 - val_mean_absolute_error: 2.
    6878
567 Epoch 239/20000
568 - 0s - loss: 16.2579 -
    mean_absolute_error: 2.9821 - val_loss
      18.7124 - val_mean_absolute_error: 2.
    8273
569 Epoch 240/20000
570 - 0s - loss: 16.5687 -
    mean_absolute_error: 3.0708 - val_loss
     18.6107 - val_mean_absolute_error: 2.
    8156
571
572 Epoch 00240: saving model to ./model/
    model_best.h5
573 Epoch 241/20000
574 - 0s - loss: 15.7391 -
    mean_absolute_error: 2.9991 - val_loss
     18.6456 - val_mean_absolute_error: 2.
    6004
575 Epoch 242/20000
```

```
- 0s - loss: 16.1562 -
576
    mean_absolute_error: 2.8376 - val_loss
      18.3616 - val_mean_absolute_error: 2.
    6542
577 Epoch 243/20000
578 - 0s - loss: 13.7959 -
    mean_absolute_error: 2.7819 - val_loss
     20.5057 - val_mean_absolute_error: 2.
    7008
579 Epoch 244/20000
    - Os - Loss: 18.3989 -
580 l
    mean_absolute_error: 3.1774 - val_loss
     21.0307 - val_mean_absolute_error: 2.
    6790
581 Epoch 245/20000
    - 0s - loss: 19.2590 -
582
    mean_absolute_error: 3.1729 - val_loss
    19.4085 - val_mean_absolute_error: 2.
    6225
583 Epoch 246/20000
    - 0s - loss: 19.5630 -
584 l
    mean_absolute_error: 3.2186 - val_loss
      19.7713 - val_mean_absolute_error: 2.
```

```
585 Epoch 247/20000
    - 0s - loss: 16.5907 -
586
    mean_absolute_error: 3.0436 - val_loss
     19.0957 - val_mean_absolute_error: 2.
    6918
587 Epoch 248/20000
    - 0s - loss: 17.7082 -
588
    mean_absolute_error: 3.1022 - val_loss
     19.7204 - val_mean_absolute_error: 2.
    7037
589 Epoch 249/20000
    - 0s - Loss: 16.0462 -
590 l
    mean_absolute_error: 2.9650 - val_loss
      18.8110 - val_mean_absolute_error: 2.
    7862
591 Epoch 250/20000
    - 0s - loss: 18.8301 -
592
    mean_absolute_error: 3.2015 - val_loss
      18.0429 - val_mean_absolute_error: 2.
    6783
593
   Epoch 00250: saving model to ./model/
594
    model_best.h5
595 Epoch 251/20000
```

```
- 0s - loss: 17.3421 -
596
    mean_absolute_error: 2.9287 - val_loss
      18.4873 - val_mean_absolute_error: 2.
    6459
597 Epoch 252/20000
    - 0s - loss: 14.5467 -
598
    mean_absolute_error: 2.9438 - val_loss
     18.4841 - val_mean_absolute_error: 2.
    5827
599 Epoch 253/20000
    - 0s - loss: 15.2362 -
600 l
    mean_absolute_error: 2.7830 - val_loss
    : 19.1641 - val_mean_absolute_error: 2.
    7018
601 Epoch 254/20000
    - 0s - loss: 17.8286 -
602
    mean_absolute_error: 3.0932 - val_loss
    19.4564 - val_mean_absolute_error: 2.
    6321
603 Epoch 255/20000
    - 0s - loss: 21.1751 -
604
    mean_absolute_error: 3.1803 - val_loss
    19.4315 - val_mean_absolute_error: 2.
    6812
```

```
605 Epoch 256/20000
    - 0s - loss: 16.5523 -
606
    mean_absolute_error: 3.0229 - val_loss
     18.6816 - val_mean_absolute_error: 2.
    5805
607 Epoch 257/20000
608 - 0s - loss: 16.4232 -
    mean_absolute_error: 3.0799 - val_loss
     18.5379 - val_mean_absolute_error: 2.
    7073
609 Epoch 258/20000
    - 0s - Loss: 16.0047 -
610
    mean_absolute_error: 3.0196 - val_loss
      18.7321 - val_mean_absolute_error: 2.
    6829
611 Epoch 259/20000
    - 0s - loss: 19.1699 -
612 I
    mean_absolute_error: 3.2799 - val_loss
     21.5231 - val_mean_absolute_error: 2.
    7863
613 Epoch 260/20000
    - 0s - loss: 18.9174 -
614 l
    mean_absolute_error: 3.2108 - val_loss
     19.1801 - val_mean_absolute_error: 2.
```

```
625 Epoch 265/20000
    - 0s - loss: 17.4090 -
626
    mean_absolute_error: 2.9183 - val_loss
      18.1106 - val_mean_absolute_error: 2.
    6731
627 Epoch 266/20000
628 - 0s - loss: 17.3440 -
    mean_absolute_error: 3.1167 - val_loss
     19.2978 - val_mean_absolute_error: 2.
    6014
629 Epoch 267/20000
    - 0s - loss: 17.0086 -
630 l
    mean_absolute_error: 2.9296 - val_loss
      18. 1390 - val_mean_absolute_error: 2.
    7294
631 Epoch 268/20000
    - 0s - loss: 15.2930 -
632
    mean_absolute_error: 2.9848 - val_loss
     18.1197 - val_mean_absolute_error: 2.
    5818
633 Epoch 269/20000
    - 0s - loss: 16.4782 -
634
    mean_absolute_error: 3.0325 - val_loss
      18.7114 - val_mean_absolute_error: 2.
```

```
File - boston01
634 6384
635 Epoch 270/20000
     - 0s - Loss: 17.6691
636
    mean_absolute_error: 3.1829 - val_loss
      18.5731 - val_mean_absolute_error: 2.
    6331
637
638 Epoch 00270: saving model to ./model/
    model_best.h5
639 Epoch 271/20000
640 - 0s - loss: 15.3685 -
    mean_absolute_error: 2.9037 - val_loss
    : 20.6827 - val_mean_absolute_error: 2.
    7999
641 Epoch 272/20000
     - Os - Loss: 14.2338 -
642
    mean_absolute_error: 2.7129 - val_loss
    : 18.7947 - val_mean_absolute_error: 2.
    8551
643 Epoch 273/20000
     - 0s - loss: 16.8254 -
644 I
    mean_absolute_error: 3.0290 - val_loss
    : 19.2943 - val_mean_absolute_error: 2.
    6760
```

```
645 Epoch 274/20000
    - 0s - loss: 15.8853 -
646
    mean_absolute_error: 2.8709 - val_loss
     19.2007 - val_mean_absolute_error: 2.
    8123
647 Epoch 275/20000
648 - 0s - loss: 17.4304 -
    mean_absolute_error: 3.0503 - val_loss
      19.2857 - val_mean_absolute_error: 2.
    6467
649 Epoch 276/20000
    - 0s - loss: 17.8986 -
650 l
    mean_absolute_error: 3.0515 - val_loss
      19.3216 - val_mean_absolute_error: 2.
    7948
651 Epoch 277/20000
    - 0s - loss: 16.5509 -
652
    mean_absolute_error: 2.9364 - val_loss
     18.8804 - val_mean_absolute_error: 2.
    6163
653 Epoch 278/20000
    - 0s - loss: 16.6916 -
654 l
    mean_absolute_error: 2.9754 - val_loss
     18.9458 - val_mean_absolute_error: 2.
```

```
File - boston01
654 8303
655 Epoch 279/20000
     - 0s - Loss: 15.5738 -
656
    mean_absolute_error: 2.9984 - val_loss
     19.2436 - val_mean_absolute_error: 2.
    8550
657 Epoch 280/20000
     - 0s - Loss: 14.8156 -
658
    mean_absolute_error: 2.8273 - val_loss
     18.4548 - val_mean_absolute_error: 2.
    6831
659
660 Epoch 00280: saving model to ./model/
    model best.h5
661 Epoch 281/20000
     - 0s - loss: 15.0207 -
662
    mean_absolute_error: 2.9143 - val_loss
    : 19.5601 - val_mean_absolute_error: 2.
    7133
663 Epoch 282/20000
     - 0s - loss: 15.4166 -
664
    mean_absolute_error: 2.8254 - val_loss
     18.6170 - val_mean_absolute_error: 2.
    7419
```

```
665 Epoch 283/20000
    - 0s - loss: 15.4910 -
666
    mean_absolute_error: 2.9688 - val_loss
     17.9598 - val_mean_absolute_error: 2.
    7861
667 Epoch 284/20000
668 - 0s - loss: 17.5251 -
    mean_absolute_error: 2.8990 - val_loss
     18.2665 - val_mean_absolute_error: 2.
    6312
669 Epoch 285/20000
670 - 0s - loss: 17.9962 -
    mean_absolute_error: 3.0847 - val_loss
     18.1609 - val_mean_absolute_error: 2.
    6541
671 Epoch 286/20000
672 - 0s - loss: 17.2688 -
    mean_absolute_error: 3.1207 - val_loss
     17.8977 - val_mean_absolute_error: 2.
    6978
673 Epoch 287/20000
674 - 0s - loss: 16.7489 -
    mean_absolute_error: 2.8913 - val_loss
     18.4074 - val_mean_absolute_error: 2.
```

```
File - boston01
674 8383
675 Epoch 288/20000
676 - 0s - loss: 15.2882 -
    mean_absolute_error: 2.9505 - val_loss
      18.7784 - val_mean_absolute_error: 2.
    6274
677 Epoch 289/20000
678 - 0s - loss: 16.1714 -
    mean_absolute_error: 2.9493 - val_loss
      17.6784 - val_mean_absolute_error: 2.
    6641
679 Epoch 290/20000
680 - 0s - loss: 19.4529 -
    mean_absolute_error: 3.1295 - val_loss
      20.4522 - val_mean_absolute_error: 2.
    8177
681
682 Epoch 00290: saving model to ./model/
    model_best.h5
683 Epoch 291/20000
     - 0s - loss: 14.5921 -
684 l
    mean_absolute_error: 2.8174 - val_loss
    : 19.8688 - val_mean_absolute_error: 2.
    7208
```

```
685 Epoch 292/20000
    - 0s - loss: 16.8314 -
686
    mean_absolute_error: 2.9866 - val_loss
      18.6719 - val_mean_absolute_error: 2.
    6891
687 Epoch 293/20000
    - 0s - loss: 18.6651 -
688
    mean_absolute_error: 3.1277 - val_loss
      18.7580 - val_mean_absolute_error: 2.
    6188
689 Epoch 294/20000
    - 0s - loss: 16.6043 -
690 l
    mean_absolute_error: 3.0182 - val_loss
      18.8572 - val_mean_absolute_error: 2.
    6298
691 Epoch 295/20000
    - 0s - loss: 14.7869 -
692
    mean_absolute_error: 2.9128 - val_loss
     18.5150 - val_mean_absolute_error: 2.
    7828
693 Epoch 296/20000
    - 0s - loss: 15.8424
694
    mean_absolute_error: 3.0057 - val_loss
     18.3243 - val_mean_absolute_error: 2.
```

```
File - boston01
694 6514
695 Epoch 297/20000
696 - 0s - loss: 18.1137 -
    mean_absolute_error: 3.0975 - val_loss
     18.7100 - val_mean_absolute_error: 2.
    6236
697 Epoch 298/20000
698 - 0s - loss: 15.3833 -
    mean_absolute_error: 2.9311 - val_loss
     17.7930 - val_mean_absolute_error: 2.
    8305
699 Epoch 299/20000
700 - 0s - loss: 16.7962 -
    mean_absolute_error: 3.0271 - val_loss
     17.7045 - val_mean_absolute_error: 2.
    7263
701 Epoch 300/20000
     - 0s - loss: 17.0735 -
702
    mean_absolute_error: 3.0577 - val_loss
     18.3371 - val_mean_absolute_error: 2.
    6294
703
    Epoch 00300: saving model to ./model/
704
    model_best.h5
```

```
705 Epoch 301/20000
    - 0s - loss: 16.7840 -
706
    mean_absolute_error: 3.0777 - val_loss
     17.5789 - val_mean_absolute_error: 2.
    7344
707 Epoch 302/20000
708 - 0s - loss: 16.3397 -
    mean_absolute_error: 3.0130 - val_loss
      18.2736 - val_mean_absolute_error: 2.
    5992
709 Epoch 303/20000
710 - 0s - loss: 15.3182 -
    mean_absolute_error: 2.9097 - val_loss
      17.3937 - val_mean_absolute_error: 2.
    7930
711 Epoch 304/20000
712 - 0s - loss: 14.8962 -
    mean_absolute_error: 2.7950 - val_loss
     17.5471 - val_mean_absolute_error: 2.
    5832
713 Epoch 305/20000
714 - 0s - loss: 1<u>5.08</u>91
    mean_absolute_error: 3.0469 - val_loss
     17.1955 - val_mean_absolute_error: 2.
```

mean_absolute_error: 2.9558 - val_loss

```
17.3433 - val_mean_absolute_error: 2.
724
    6642
725
726 Epoch 00310: saving model to ./model/
    model_best.h5
727 Epoch 311/20000
728 - 0s - loss: 17.3428 -
    mean_absolute_error: 3.0327 - val_loss
      16.8698 - val_mean_absolute_error: 2.
    6561
729 Epoch 312/20000
730 - 0s - loss: 15.8393 -
    mean_absolute_error: 2.9199 - val_loss
      16.9740 - val_mean_absolute_error: 2.
    5731
731 Epoch 313/20000
732 - 0s - loss: 16.8871 -
    mean_absolute_error: 3.0370 - val_loss
    : 19.3013 - val_mean_absolute_error: 2.
    6871
733 Epoch 314/20000
734 - 0s - loss: 14.4243 -
    mean_absolute_error: 2.8333 - val_loss
     17.1381 - val_mean_absolute_error: 2.
```

```
17.4676 - val_mean_absolute_error: 2.
744
    6181
745 Epoch 320/20000
    - 0s - loss: 18.8766 -
746
    mean_absolute_error: 3.1169 - val_loss
     17.2238 - val_mean_absolute_error: 2.
    6199
747
    Epoch 00320: saving model to ./model/
748
    model best.h5
749 Epoch 321/20000
    - Os - Loss: 13.4843 -
750 l
    mean_absolute_error: 2.8378 - val_loss
      17.0534 - val_mean_absolute_error: 2.
    6072
751 Epoch 322/20000
    - 0s - loss: 13.2294 -
752 l
    mean_absolute_error: 2.8157 - val_loss
     16.9670 - val_mean_absolute_error: 2.
    5525
753 Epoch 323/20000
754 - 0s - loss: 15.8175 -
    mean_absolute_error: 2.9615 - val_loss
     17.2906 - val_mean_absolute_error: 2.
```

```
File - boston01
754 6073
755 Epoch 324/20000
     - 0s - Loss: 15.9347
756
    mean_absolute_error: 2.9056 - val_loss
      17.1373 - val_mean_absolute_error: 2.
    5921
757 Epoch 325/20000
     - 0s - Loss: 15.2336 -
758 I
    mean_absolute_error: 2.9152 - val_loss
     17.1885 - val_mean_absolute_error: 2.
    8771
759 Epoch 326/20000
760 - 0s - loss: 17.3381 -
    mean_absolute_error: 3.0519 - val_loss
     17.2988 - val_mean_absolute_error: 2.
    6821
761 Epoch 327/20000
762 - 0s - loss: 15.0492 -
    mean_absolute_error: 2.8642 - val_loss
    : 16.8186 - val_mean_absolute_error: 2.
    5711
763 Epoch 328/20000
764 - 0s - loss: 19.1748 -
    mean_absolute_error: 3.0755 - val_loss
```

```
17.2877 - val_mean_absolute_error: 2.
764
    5781
765 Epoch 329/20000
766 - 0s - loss: 14.0429 -
    mean_absolute_error: 2.8270 - val_loss
      16.6846 - val_mean_absolute_error: 2.
    5480
767 Epoch 330/20000
768
    - 0s - loss: 18.7466 -
    mean_absolute_error: 3.1275 - val_loss
     16.8457 - val_mean_absolute_error: 2.
    5742
769
770 Epoch 00330: saving model to ./model/
    model_best.h5
771 Epoch 331/20000
772 - 0s - loss: 15.3323 -
    mean_absolute_error: 2.7909 - val_loss
     16.7786 - val_mean_absolute_error: 2.
    5984
773 Epoch 332/20000
774 - 0s - loss: 16.9279 -
    mean_absolute_error: 3.1052 - val_loss
     16.9907 - val_mean_absolute_error: 2.
```

```
17.3234 - val_mean_absolute_error: 2.
784
    7929
785 Epoch 338/20000
    - 0s - loss: 17.6836 -
786
    mean_absolute_error: 2.9966 - val_loss
    : 17.8031 - val_mean_absolute_error: 2.
    6853
787 Epoch 339/20000
788
    - 0s - loss: 16.2596 -
    mean_absolute_error: 2.8677 - val_loss
    17.5597 - val_mean_absolute_error: 2.
    7343
789 Epoch 340/20000
    - 0s - loss: 15.5230 -
790 l
    mean_absolute_error: 2.8566 - val_loss
      17.9275 - val_mean_absolute_error: 2.
    7769
791
   Epoch 00340: saving model to ./model/
    model_best.h5
793 Epoch 341/20000
794 - 0s - loss: 12.9474 -
    mean_absolute_error: 2.7852 - val_loss
     18.0008 - val_mean_absolute_error: 2.
```

mean_absolute_error: 2.8367 - val_loss

- 0s - loss: 13.3470 -

804

```
19.1804 - val_mean_absolute_error: 2.
804
    6691
805 Epoch 347/20000
    - 0s - loss: 15.7937 -
806
    mean_absolute_error: 2.8350 - val_loss
    : 18.2272 - val_mean_absolute_error: 2.
    6916
807 Epoch 348/20000
808
    - 0s - loss: 13.4192 -
    mean_absolute_error: 2.7528 - val_loss
    19.2433 - val_mean_absolute_error: 2.
    7335
809 Epoch 349/20000
    - 0s - loss: 15.3376 -
810 l
    mean_absolute_error: 2.9408 - val_loss
      18.0428 - val_mean_absolute_error: 2.
    6385
811 Epoch 350/20000
    - 0s - loss: 15.1040 -
812
    mean_absolute_error: 2.8012 - val_loss
      17.5332 - val_mean_absolute_error: 2.
    6440
813
   Epoch 00350: saving model to ./model/
814
```

```
814 model_best.h5
815 Epoch 351/20000
816 - 0s - loss: 14.6682 -
    mean_absolute_error: 2.7927 - val_loss
     17.6664 - val_mean_absolute_error: 2.
    6170
817 Epoch 352/20000
    - 0s - loss: 13.6564 -
818 I
    mean_absolute_error: 2.8407 - val_loss
    17.7609 - val_mean_absolute_error: 2.
    6383
819 Epoch 353/20000
820 - Os - Ioss: 15.8412 -
    mean_absolute_error: 2.8901 - val_loss
     18.1538 - val_mean_absolute_error: 2.
    6538
821 Epoch 354/20000
    - 0s - loss: 13.4674 -
822 |
    mean_absolute_error: 2.7803 - val_loss
     18.1062 - val_mean_absolute_error: 2.
    6419
823 Epoch 355/20000
824 - 0s - loss: 18.5021 -
    mean_absolute_error: 3.0336 - val_l<u>oss</u>
```

```
18.6804 - val_mean_absolute_error: 2.
824
    6864
825 Epoch 356/20000
    - 0s - loss: 16.2315 -
826
    mean_absolute_error: 3.0339 - val_loss
    : 17.5046 - val_mean_absolute_error: 2.
    6389
827 Epoch 357/20000
828
    - 0s - loss: 14.8194 -
    mean_absolute_error: 2.8133 - val_loss
      18.0098 - val_mean_absolute_error: 2.
    6496
829 Epoch 358/20000
    - 0s - loss: 18.1055 -
830
    mean_absolute_error: 3.2217 - val_loss
     17.8740 - val_mean_absolute_error: 2.
    6540
831 Epoch 359/20000
    - 0s - loss: 14.9723 -
832
    mean_absolute_error: 2.9467 - val_loss
      17.5497 - val_mean_absolute_error: 2.
    6446
833 Epoch 360/20000
    - 0s - loss: 16.9937
834
```

```
834 mean_absolute_error: 2.9535 - val_loss
      18.7165 - val_mean_absolute_error: 2.
    6401
835
836 Epoch 00360: saving model to ./model/
    model_best.h5
837 Epoch 361/20000
    - 0s - loss: 13.1198 -
838
    mean_absolute_error: 2.8169 - val_loss
     18.2070 - val_mean_absolute_error: 2.
    7352
839 Epoch 362/20000
840 - Os - loss: 14.2542 -
    mean_absolute_error: 2.8199 - val_loss
    : 17.2905 - val_mean_absolute_error: 2.
    5993
841 Epoch 363/20000
    - 0s - loss: 12.6945 -
842
    mean_absolute_error: 2.6866 - val_loss
    17.5439 - val_mean_absolute_error: 2.
    6273
843 Epoch 364/20000
844 - 0s - loss: 16.4718 -
    mean_absolute_error: 2.9711 - val_loss
```

```
18.4743 - val_mean_absolute_error: 2.
844
    6266
845 Epoch 365/20000
    - 0s - loss: 15.6310 -
846
    mean_absolute_error: 2.7690 - val_loss
      20.0516 - val_mean_absolute_error: 2.
    7692
847 Epoch 366/20000
    - 0s - loss: 15.5561 -
848
    mean_absolute_error: 2.9407 - val_loss
      17.3058 - val_mean_absolute_error: 2.
    6425
849 Epoch 367/20000
850 l
    - Os - loss: 15.4242 -
    mean_absolute_error: 2.8978 - val_loss
      16.9828 - val_mean_absolute_error: 2.
    6155
851 Epoch 368/20000
    - 0s - loss: 14.6059 -
852
    mean_absolute_error: 2.8364 - val_loss
      18.5568 - val_mean_absolute_error: 2.
    6579
853 Epoch 369/20000
    - 0s - loss: 16.1497
854
```

```
854 mean_absolute_error: 3.0168 - val_loss
      18.1513 - val_mean_absolute_error: 2.
    6133
855 Epoch 370/20000
    - 0s - loss: 14.1873 -
856
    mean_absolute_error: 2.8148 - val_loss
      18.6173 - val_mean_absolute_error: 2.
    7665
857
   Epoch 00370: saving model to ./model/
858
    model_best.h5
859 Epoch 371/20000
    - 0s - Loss: 17.8615 -
860 I
    mean_absolute_error: 3.0266 - val_loss
    18.4815 - val_mean_absolute_error: 2.
    7152
861 Epoch 372/20000
    - 0s - loss: 15.7374 -
862
    mean_absolute_error: 2.8913 - val_loss
    : 18.1656 - val_mean_absolute_error: 2.
    9090
863 Epoch 373/20000
    - 0s - loss: 15.5059 -
864
    mean_absolute_error: 2.8868 - val_loss
```

```
17.5115 - val_mean_absolute_error: 2.
864
    6336
865 Epoch 374/20000
    - 0s - loss: 12.5363 -
866
    mean_absolute_error: 2.6727 - val_loss
    : 17.6982 - val_mean_absolute_error: 2.
    6526
867 Epoch 375/20000
868
    - 0s - loss: 15.1670 -
    mean_absolute_error: 2.8138 - val_loss
     18.7342 - val_mean_absolute_error: 2.
    6730
869 Epoch 376/20000
    - 0s - loss: 17.9911 -
870 l
    mean_absolute_error: 3.0673 - val_loss
     17.8617 - val_mean_absolute_error: 2.
    6531
871 Epoch 377/20000
    - Os - Loss: 14.4294 -
872 l
    mean_absolute_error: 2.8092 - val_loss
      18.4860 - val_mean_absolute_error: 2.
    6767
873 Epoch 378/20000
    - 0s - loss: 17.1419 -
874 l
```

```
874 mean_absolute_error: 3.0078 - val_loss
      18.4416 - val_mean_absolute_error: 2.
    7220
875 Epoch 379/20000
    - 0s - loss: 15.9500 -
876 l
    mean_absolute_error: 2.9277 - val_loss
     18.1085 - val_mean_absolute_error: 2.
    6816
877 Epoch 380/20000
878 - Os - Loss: 15.8139 -
    mean_absolute_error: 2.9280 - val_loss
      17.3912 - val_mean_absolute_error: 2.
    6637
879
880 Epoch 00380: saving model to ./model/
    model_best.h5
881 Epoch 381/20000
    - 0s - loss: 13.1755 -
882 |
    mean_absolute_error: 2.7567 - val_loss
    17.8535 - val_mean_absolute_error: 2.
    6625
883 Epoch 382/20000
    - Os - Loss: 14.1129 -
884 I
    mean_absolute_error: 2.8165 - val_loss
```

```
17.0857 - val_mean_absolute_error: 2.
884
    6050
885 Epoch 383/20000
    - 0s - loss: 12.8434 -
886
    mean_absolute_error: 2.7038 - val_loss
    : 18.5088 - val_mean_absolute_error: 2.
    6727
887 Epoch 384/20000
888
    - 0s - loss: 15.2308 -
    mean_absolute_error: 2.8777 - val_loss
     17.8258 - val_mean_absolute_error: 2.
    6401
889 Epoch 385/20000
    - 0s - loss: 13.1650 -
890
    mean_absolute_error: 2.7195 - val_loss
    17.5600 - val_mean_absolute_error: 2.
    8337
891 Epoch 386/20000
    - 0s - loss: 13.8807 -
892
    mean_absolute_error: 2.8741 - val_loss
      16.7423 - val_mean_absolute_error: 2.
    6414
893 Epoch 387/20000
    - 0s - loss: 16.8501
894
```

```
894 mean_absolute_error: 3.0397 - val_loss
      17.5921 - val_mean_absolute_error: 2.
    5962
895 Epoch 388/20000
    - 0s - loss: 15.3091 -
896
    mean_absolute_error: 2.8117 - val_loss
      18.1427 - val_mean_absolute_error: 2.
    6553
897 Epoch 389/20000
    - 0s - loss: 15.3148 -
898
    mean_absolute_error: 2.8803 - val_loss
     17.8699 - val_mean_absolute_error: 2.
    5923
899 Epoch 390/20000
    - 0s - loss: 17.1158 -
900
    mean_absolute_error: 3.0272 - val_loss
     17.0791 - val_mean_absolute_error: 2.
    5844
901
   Epoch 00390: saving model to ./model/
902
    model_best.h5
903 Epoch 391/20000
    - 0s - Loss: 12.9360 -
904
    mean_absolute_error: 2.6172 - val_loss
```

```
17.3931 - val_mean_absolute_error: 2.
904
    5770
905 Epoch 392/20000
    - 0s - loss: 15.2445 -
906
    mean_absolute_error: 2.9126 - val_loss
    : 17.2695 - val_mean_absolute_error: 2.
    6112
907 Epoch 393/20000
908
    - 0s - loss: 17.2913 -
    mean_absolute_error: 2.9963 - val_loss
     17.1773 - val_mean_absolute_error: 2.
    6774
909 Epoch 394/20000
910 - 0s - loss: 15.9070 -
    mean_absolute_error: 2.9249 - val_loss
     17.0791 - val_mean_absolute_error: 2.
    6383
911 Epoch 395/20000
    - 0s - Loss: 15.0246 -
912 I
    mean_absolute_error: 2.7689 - val_loss
      18.7457 - val_mean_absolute_error: 2.
    7262
913 Epoch 396/20000
914
    - 0s - loss: 16.9875
```

```
914 mean_absolute_error: 2.9350 - val_loss
      16.7740 - val_mean_absolute_error: 2.
    6136
915 Epoch 397/20000
916 - 0s - loss: 13.7328 -
    mean_absolute_error: 2.7431 - val_loss
      17. 1135 - val_mean_absolute_error: 2.
    5945
917 Epoch 398/20000
918 - 0s - loss: 14.3301 -
    mean_absolute_error: 2.8046 - val_loss
      16.9098 - val_mean_absolute_error: 2.
    6468
919 Epoch 399/20000
    - 0s - loss: 13.0318 -
920
    mean_absolute_error: 2.7123 - val_loss
     17.2984 - val_mean_absolute_error: 2.
    6622
921 Epoch 400/20000
    - 0s - loss: 13.8545 -
922
    mean_absolute_error: 2.6871 - val_loss
     17.5061 - val_mean_absolute_error: 2.
    7860
```

923

```
924 Epoch 00400: saving model to ./model/
    model best.h5
925 Epoch 401/20000
926 - Os - Loss: 16.3677 -
    mean_absolute_error: 2.9938 - val_loss
    : 17.6166 - val_mean_absolute_error: 2.
    6574
927 Epoch 402/20000
928
    - 0s - loss: 16.2290 -
    mean_absolute_error: 2.9170 - val_loss
     18.8676 - val_mean_absolute_error: 2.
    6637
929 Epoch 403/20000
930 - 0s - loss: 16.2960 -
    mean_absolute_error: 3.0361 - val_loss
     17.8409 - val_mean_absolute_error: 2.
    6951
931 Epoch 404/20000
    - 0s - Loss: 16.6314 -
932
    mean_absolute_error: 3.0453 - val_loss
     18.0223 - val_mean_absolute_error: 2.
    6529
933 Epoch 405/20000
934
    - 0s - loss: 14.4591
```

```
934 mean_absolute_error: 2.8366 - val_loss
      17.9732 - val_mean_absolute_error: 2.
    6193
935 Epoch 406/20000
    - 0s - loss: 16.3683 -
936
    mean_absolute_error: 2.9942 - val_loss
      17.5218 - val_mean_absolute_error: 2.
    5731
937 Epoch 407/20000
938 - 0s - loss: 14.0417 -
    mean_absolute_error: 2.8118 - val_loss
     19.3022 - val_mean_absolute_error: 2
    7296
939 Epoch 408/20000
    - 0s - loss: 15.6914 -
940
    mean_absolute_error: 2.9952 - val_loss
     18.2375 - val_mean_absolute_error: 2.
    6670
941 Epoch 409/20000
    - 0s - loss: 13.6609 -
942
    mean_absolute_error: 2.6817 - val_loss
     16.8251 - val_mean_absolute_error: 2.
    6234
943 Epoch 410/20000
```

```
- 0s - loss: 13.2995 -
944
    mean_absolute_error: 2.6047 - val_loss
     17.3014 - val_mean_absolute_error: 2.
    7118
945
946 Epoch 00410: saving model to ./model/
    model_best.h5
947 Epoch 411/20000
    - 0s - loss: 13.8570 -
948
    mean_absolute_error: 2.8485 - val_loss
     17.1193 - val_mean_absolute_error: 2.
    6198
949 Epoch 412/20000
    - 0s - loss: 15.9750 -
950
    mean_absolute_error: 2.8093 - val_loss
      18.5388 - val_mean_absolute_error: 2.
    6619
951 Epoch 413/20000
    - 0s - loss: 14.8456 -
952
    mean_absolute_error: 2.7604 - val_loss
      18.3865 - val_mean_absolute_error: 2.
    6737
953 Epoch 414/20000
954
    - 0s - loss: 14.4278
```

```
954 mean_absolute_error: 2.8515 - val_loss
      17.3001 - val_mean_absolute_error: 2.
    6569
955 Epoch 415/20000
    - 0s - loss: 13.3129 -
956
    mean_absolute_error: 2.7800 - val_loss
      17. 1239 - val_mean_absolute_error: 2.
    6207
957 Epoch 416/20000
    - 0s - loss: 18.5762 -
958
    mean_absolute_error: 3.0759 - val_loss
     17.4338 - val_mean_absolute_error: 2.
    6217
959 Epoch 417/20000
    - 0s - loss: 19.0493
960
    mean_absolute_error: 3.0540 - val_loss
      17.1366 - val_mean_absolute_error: 2.
    6497
961 Epoch 418/20000
    - 0s - loss: 13.0274 -
962
    mean_absolute_error: 2.7210 - val_loss
      17.8040 - val_mean_absolute_error: 2.
    6462
963 Epoch 419/20000
```

```
- 0s - loss: 15.3984 -
964
    mean_absolute_error: 2.8985 - val_loss
      17.3748 - val_mean_absolute_error: 2.
    6023
965 Epoch 420/20000
    - Os - Loss: 15.4334 -
966
    mean_absolute_error: 2.8627 - val_loss
     16.8025 - val_mean_absolute_error: 2.
    6019
967
968 Epoch 00420: saving model to ./model/
    model_best.h5
969 Epoch 421/20000
    - 0s - loss: 16.9972 -
970 l
    mean_absolute_error: 2.8646 - val_loss
      17.3831 - val_mean_absolute_error: 2.
    5952
971 Epoch 422/20000
    - 0s - loss: 15.0363 -
972 |
    mean_absolute_error: 2.8048 - val_loss
      17.3544 - val_mean_absolute_error: 2.
    6460
973 Epoch 423/20000
974
    - 0s - loss: 14.9260 -
```

```
974 mean_absolute_error: 2.8835 - val_loss
      16.3686 - val_mean_absolute_error: 2.
    5898
975 Epoch 424/20000
    - 0s - loss: 17.0805 -
976 l
    mean_absolute_error: 2.9700 - val_loss
      17.3989 - val_mean_absolute_error: 2.
    6183
977 Epoch 425/20000
978 - 0s - loss: 13.7107 -
    mean_absolute_error: 2.7561 - val_loss
      17.8151 - val_mean_absolute_error: 2.
    6424
979 Epoch 426/20000
    - 0s - loss: 14.2350 -
980
    mean_absolute_error: 2.7541 - val_loss
     18.3832 - val_mean_absolute_error: 2.
    6839
981 Epoch 427/20000
    - 0s - loss: 15.3130 -
982
    mean_absolute_error: 2.7730 - val_loss
     17.3823 - val_mean_absolute_error: 2.
    6031
983 Epoch 428/20000
```

```
- 0s - loss: 16.2547 -
984
    mean_absolute_error: 2.9286 - val_loss
      17.6555 - val_mean_absolute_error:
     6273
985 Epoch 429/20000
    - 0s - Loss: 13.2648 -
986
    mean_absolute_error: 2.7406 - val_loss
      17.9251 - val_mean_absolute_error:
     6177
987 Epoch 430/20000
    - 0s - loss: 13.6677 -
988
    mean_absolute_error: 2.7807 - val_loss
      19.7775 - val_mean_absolute_error:
    7752
989
   Epoch 00430: saving model to ./model/
990
    model_best.h5
991 Epoch 431/20000
    - 0s - loss: 15.1519 -
992
    mean_absolute_error: 2.7573 - val_loss
      16.8662 - val_mean_absolute_error: 2
     5998
993 Epoch 432/20000
    - 0s - loss: 13.8669
994
```

```
994 mean_absolute_error: 2.7667 - val_loss
       16.1935 - val_mean_absolute_error: 2
      6551
995 Epoch 433/20000
996 - 0s - loss: 14.1472 -
     mean_absolute_error: 2.8411 - val_loss
       16.6543 - val_mean_absolute_error: 2
     6608
997 Epoch 434/20000
998 - 0s - loss: 19.1050 -
     mean_absolute_error: 3.0678 - val_loss
       17.7616 - val_mean_absolute_error: 2
     6121
999 Epoch 435/20000
1000 - 0s - loss: 12.8055 -
     mean_absolute_error: 2.7361 - val_loss
       17.0781 - val_mean_absolute_error:
      5851
1001 Epoch 436/20000
     - 0s - loss: 13.8615 -
1002 l
     mean_absolute_error: 2.7320 - val_loss
       17.0394 - val_mean_absolute_error:
      5966
1003 Epoch 437/20000
```

```
- 0s - loss: 13.9084 -
1004
     mean_absolute_error: 2.7637 - val_loss
       16.9595 - val_mean_absolute_error: 2
      6251
1005 Epoch 438/20000
     - 0s - loss: 15.0736 -
1006
     mean_absolute_error: 2.9796 - val_loss
       16.9820 - val_mean_absolute_error:
      6065
1007 Epoch 439/20000
1008 - 0s - loss: 15.5259 -
     mean_absolute_error: 2.9207 - val_loss
       17.8240 - val_mean_absolute_error:
      6440
1009 Epoch 440/20000
     - 0s - loss: 16.7808 -
1010
     mean_absolute_error: 3.1345 - val_loss
       16.9788 - val_mean_absolute_error: 2
     . 6034
1011
    Epoch 00440: saving model to ./model/
1012
     model_best.h5
1013 Epoch 441/20000
1014 - 0s - loss: 15.8061 -
```

```
1014 mean_absolute_error: 2.9082 - val_loss
       18.2561 - val_mean_absolute_error: 2
      6981
1015 Epoch 442/20000
1016 - 0s - loss: 12.2951 -
     mean_absolute_error: 2.5652 - val_loss
       16.4796 - val_mean_absolute_error: 2
      6091
1017 Epoch 443/20000
1018 - 0s - loss: 12.5005 -
     mean_absolute_error: 2.6693 - val_loss
       17.6204 - val_mean_absolute_error: 2
     6127
1019 Epoch 444/20000
1020 - 0s - loss: 11.9845 -
     mean_absolute_error: 2.5429 - val_loss
     : 16.6807 - val_mean_absolute_error: 2
     . 5964
1021 Epoch 445/20000
1022 - 0s - loss: 15.7993 -
     mean_absolute_error: 2.8822 - val_loss
       16.3623 - val_mean_absolute_error:
      5904
1023 Epoch 446/20000
```

```
- 0s - loss: 13.0295 -
1024
     mean_absolute_error: 2.6760 - val_loss
       17.1426 - val_mean_absolute_error: 2
      6149
1025 Epoch 447/20000
1026 - 0s - loss: 13.3896 -
     mean_absolute_error: 2.6779 - val_loss
       18.7964 - val_mean_absolute_error: 2
     7038
1027 Epoch 448/20000
1028 - 0s - loss: 13.9227 -
     mean_absolute_error: 2.7492 - val_loss
      16.8829 - val_mean_absolute_error: 2
     6022
1029 Epoch 449/20000
1030 - 0s - loss: 14.1210 -
     mean_absolute_error: 2.6615 - val_loss
       16.7457 - val_mean_absolute_error: 2
     7318
1031 Epoch 450/20000
     - 0s - loss: 11.9354 -
1032
     mean_absolute_error: 2.5550 - val_loss
     : 17.5155 - val_mean_absolute_error: 2
     6470
```

```
1033
1034 Epoch 00450: saving model to ./model/
     model_best.h5
1035 Epoch 451/20000
1036 - 0s - loss: 15.4817 -
     mean_absolute_error: 2.8055 - val_loss
       17.3152 - val_mean_absolute_error: 2
     6849
1037 Epoch 452/20000
1038 - 0s - loss: 16.4353 -
     mean_absolute_error: 2.8643 - val_loss
       17.8373 - val_mean_absolute_error: 2
     7056
1039 Epoch 453/20000
1040 - 0s - loss: 15.2498 -
     mean_absolute_error: 2.8843 - val_loss
       17.8171 - val_mean_absolute_error:
     . 6508
1041 Epoch 454/20000
1042 - 0s - loss: 14.4941 -
     mean_absolute_error: 2.8045 - val_loss
       16.6537 - val_mean_absolute_error:
      5687
1043 Epoch 455/20000
```

```
- 0s - loss: 14.7338 -
1044
     mean_absolute_error: 2.7896 - val_loss
       18.2239 - val_mean_absolute_error: 2
      6513
1045 Epoch 456/20000
1046 - 0s - loss: 17.8781 -
     mean_absolute_error: 3.1460 - val_loss
       18.0958 - val_mean_absolute_error: 2
      6402
1047 Epoch 457/20000
1048 - 0s - loss: 11.5809 -
     mean_absolute_error: 2.5501 - val_loss
       17.1740 - val_mean_absolute_error: 2
     6076
1049 Epoch 458/20000
     - 0s - loss: 12.5941 -
1050 l
     mean_absolute_error: 2.7953 - val_loss
       16.8838 - val_mean_absolute_error: 2
     6225
1051 Epoch 459/20000
     - 0s - loss: 17.1100 -
1052
     mean_absolute_error: 2.8517 - val_loss
     : 16.8967 - val_mean_absolute_error: 2
     5801
```

```
File - boston01
1053 Epoch 460/20000
      - 0s - loss: 15.3582 -
1054
     mean_absolute_error: 2.9123 - val_loss
       16.5181 - val_mean_absolute_error: 2
      . 5597
1055
     Epoch 00460: saving model to ./model/
1056
     model_best.h5
1057 Epoch 461/20000
1058 - 0s - loss: 14.2155 -
     mean_absolute_error: 2.7565 - val_loss
       16.7176 - val_mean_absolute_error: 2
      5761
1059 Epoch 462/20000
1060 - 0s - loss: 16.1305 -
     mean_absolute_error: 2.8713 - val_loss
      : 16.7868 - val_mean_absolute_error: 2
      5809
1061 Epoch 463/20000
1062 - 0s - loss: 13.1758 -
     mean_absolute_error: 2.7281 - val_loss
       19.6330 - val_mean_absolute_error:
1063 Epoch 464/20000
```

```
- 0s - loss: 14.0721 -
1064
     mean_absolute_error: 2.7482 - val_loss
       16.2697 - val_mean_absolute_error: 2
      5019
1065 Epoch 465/20000
     - 0s - loss: 14.8623 -
1066
     mean_absolute_error: 2.8637 - val_loss
       16.5554 - val_mean_absolute_error: 2
      5314
1067 Epoch 466/20000
1068 - 0s - loss: 12.2525 -
     mean_absolute_error: 2.5656 - val_loss
      16.4781 - val_mean_absolute_error: 2
     5360
1069 Epoch 467/20000
     - 0s - loss: 13.8551 -
1070
     mean_absolute_error: 2.6498 - val_loss
       16.2729 - val_mean_absolute_error: 2
      5626
1071 Epoch 468/20000
     - 0s - loss: 14.0369 -
1072
     mean_absolute_error: 2.7535 - val_loss
      17.4188 - val_mean_absolute_error: 2
     6336
```

Page 108 of 1152

5709

1083 Epoch 473/20000

```
- 0s - loss: 13.4297 -
1084
     mean_absolute_error: 2.6948 - val_loss
       15.8605 - val_mean_absolute_error: 2
      5690
1085 Epoch 474/20000
1086 - 0s - loss: 15.1700 -
     mean_absolute_error: 2.9174 - val_loss
       16.7845 - val_mean_absolute_error: 2
     6027
1087 Epoch 475/20000
1088 - 0s - loss: 15.0407 -
     mean_absolute_error: 2.8804 - val_loss
      16.5943 - val_mean_absolute_error: 2
     5660
1089 Epoch 476/20000
     - 0s - loss: 15.9520 -
1090
     mean_absolute_error: 2.9599 - val_loss
       19.0427 - val_mean_absolute_error: 2
     8178
1091 Epoch 477/20000
     - 0s - loss: 14.2256 -
1092
     mean_absolute_error: 2.8208 - val_loss
     17.0031 - val_mean_absolute_error: 2
     7200
```

5865

1103 Epoch 482/20000

```
- 0s - loss: 12.9176 -
1104
     mean_absolute_error: 2.5701 - val_loss
       17.0110 - val_mean_absolute_error: 2
      5967
1105 Epoch 483/20000
1106 - 0s - loss: 15.1237 -
     mean_absolute_error: 2.8850 - val_loss
       17.0874 - val_mean_absolute_error: 2
      6397
1107 Epoch 484/20000
1108 - 0s - loss: 13.9354 -
     mean_absolute_error: 2.7524 - val_loss
       17.2176 - val_mean_absolute_error: 2
     6296
1109 Epoch 485/20000
1110 - 0s - loss: 12.6153 -
     mean_absolute_error: 2.6481 - val_loss
      16.4080 - val_mean_absolute_error: 2
     6166
1111 Epoch 486/20000
     - 0s - loss: 14.0933 -
1112
     mean_absolute_error: 2.7262 - val_loss
     : 16.6100 - val_mean_absolute_error: 2
     6228
```

1122 Epoch 00490: saving model to ./model/model_best.h5

1123 Epoch 491/20000

```
- 0s - loss: 14.1963 -
1124
     mean_absolute_error: 2.8422 - val_loss
       17.8514 - val_mean_absolute_error: 2
      6883
1125 Epoch 492/20000
1126 - 0s - loss: 11.3755 -
     mean_absolute_error: 2.6301 - val_loss
       16.7424 - val_mean_absolute_error: 2
     6194
1127 Epoch 493/20000
1128 - Os - Loss: 13.7425 -
     mean_absolute_error: 2.8533 - val_loss
      17.2986 - val_mean_absolute_error: 2
     6136
1129 Epoch 494/20000
1130 - 0s - loss: 15.8320 -
     mean_absolute_error: 2.8748 - val_loss
       16.4559 - val_mean_absolute_error: 2
     5785
1131 Epoch 495/20000
     - 0s - loss: 13.2914 -
1132
     mean_absolute_error: 2.7607 - val_loss
     : 15.9606 - val_mean_absolute_error: 2
     6355
```

1141 Epoch 500/20000

1142 - 0s - loss: 13.0056 - mean_absolute_error: 2.7176 - val_loss : 17.2855 - val_mean_absolute_error: 2

```
File - boston01
     . 5667
1142
1143
1144 Epoch 00500: saving model to ./model/
     model_best.h5
1145 Epoch 501/20000
1146 - 0s - loss: 14.7486 -
     mean_absolute_error: 2.8107 - val_loss
       16.2607 - val_mean_absolute_error: 2
      5465
1147 Epoch 502/20000
1148 - 0s - loss: 14.2823 -
     mean_absolute_error: 2.8900 - val_loss
       17.2239 - val_mean_absolute_error: 2
      5894
1149 Epoch 503/20000
1150 - 0s - loss: 11.9794 -
     mean_absolute_error: 2.6028 - val_loss
       17.6635 - val_mean_absolute_error: 2
      6232
1151 Epoch 504/20000
      - Os - Loss: 13.9933 -
1152
     mean_absolute_error: 2.7422 - val_loss
     : 17.6163 - val_mean_absolute_error: 2
      5881
```

mean_absolute_error: 2.8603 - val_loss

16.4552 - val_mean_absolute_error: 2

1162 - 0s - loss: 16.0235 -

```
File - boston01
     . 5431
1162
1163 Epoch 510/20000
1164 - 0s - loss: 14.3190 -
     mean_absolute_error: 2.7675 - val_loss
       16.7747 - val_mean_absolute_error: 2
      5745
1165
1166 Epoch 00510: saving model to ./model/
     model_best.h5
1167 Epoch 511/20000
1168 - 0s - loss: 12.9912 -
     mean_absolute_error: 2.7222 - val_loss
       16.4307 - val_mean_absolute_error: 2
      5673
1169 Epoch 512/20000
1170 - 0s - loss: 12.9750 -
     mean_absolute_error: 2.6937 - val_loss
       16.5236 - val_mean_absolute_error: 2
      5682
1171 Epoch 513/20000
1172 - 0s - loss: 12.0839 -
     mean_absolute_error: 2.6266 - val_loss
     : 16.6156 - val_mean_absolute_error: 2
      5975
```

1181 Epoch 518/20000

1182 - 0s - loss: 16.0727 - mean_absolute_error: 2.8483 - val_loss : 16.3066 - val_mean_absolute_error: 2

```
File - boston01
     . 5811
1182
1183 Epoch 519/20000
1184 - Os - Loss: 13.4979 -
     mean_absolute_error: 2.7741 - val_loss
       17.1208 - val_mean_absolute_error: 2
      6105
1185 Epoch 520/20000
1186 - 0s - loss: 14.1698 -
     mean_absolute_error: 2.7469 - val_loss
     : 16.5339 - val_mean_absolute_error:
      . 5693
1187
1188 Epoch 00520: saving model to ./model/
     model_best.h5
1189 Epoch 521/20000
1190 - 0s - loss: 15.7081 -
     mean_absolute_error: 2.8563 - val_loss
       18.3733 - val_mean_absolute_error: 2
      6770
1191 Epoch 522/20000
      - Os - Loss: 14.4143 -
1192
     mean_absolute_error: 2.7861 - val_loss
     : 16.8833 - val_mean_absolute_error: 2
      5824
```

mean_absolute_error: 2.7157 - val_loss 15.7701 - val_mean_absolute_error: 2 5030

1201 Epoch 527/20000

1202 - 0s - loss: 12.9009 mean_absolute_error: 2.6491 - val_loss 17.4525 - val_mean_absolute_error: 2

```
File - boston01
     . 6382
1202
1203 Epoch 528/20000
1204 - 0s - loss: 13.9711 -
     mean_absolute_error: 2.7915 - val_loss
       16.7633 - val_mean_absolute_error: 2
      5617
1205 Epoch 529/20000
1206 - Os - Loss: 14.5336 -
     mean_absolute_error: 2.7439 - val_loss
       16.3467 - val_mean_absolute_error:
      5846
1207 Epoch 530/20000
1208 - 0s - loss: 15.0457 -
     mean_absolute_error: 2.8095 - val_loss
       16.3941 - val_mean_absolute_error:
      . 5768
1209
1210 Epoch 00530: saving model to ./model/
     model_best.h5
1211 Epoch 531/20000
      - 0s - loss: 12.3104 -
1212
     mean_absolute_error: 2.6134 - val_loss
     : 17.4631 - val_mean_absolute_error: 2
      6263
```

1221 Epoch 536/20000

1222 - 0s - loss: 14.1316 - mean_absolute_error: 2.8377 - val_loss : 16.5072 - val_mean_absolute_error: 2

```
File - boston01
     . 5609
1222
1223 Epoch 537/20000
1224 - 0s - loss: 12.2173 -
     mean_absolute_error: 2.6088 - val_loss
       17.4746 - val_mean_absolute_error: 2
      6703
1225 Epoch 538/20000
1226 - Os - Loss: 14.6833 -
     mean_absolute_error: 2.8301 - val_loss
       15.9452 - val_mean_absolute_error:
      4931
1227 Epoch 539/20000
1228 - 0s - loss: 13.3269 -
     mean_absolute_error: 2.7513 - val_loss
       16.2964 - val_mean_absolute_error:
      4661
1229 Epoch 540/20000
1230 - 0s - loss: 13.7660 -
     mean_absolute_error: 2.6967 - val_loss
       15.7545 - val_mean_absolute_error:
      4822
1231
     Epoch 00540: saving model to ./model/
1232
     model_best.h5
```

mean_absolute_error: 2.5792 - val_loss

16.3774 - val_mean_absolute_error: 2

1242 - 0s - loss: 13.0715 -

```
16.0822 - val_mean_absolute_error: 2
1252
     5721
1253
1254 Epoch 00550: saving model to ./model/
     model_best.h5
1255 Epoch 551/20000
     - 0s - loss: 14.8556 -
1256 l
     mean_absolute_error: 2.7787 - val_loss
      16.7015 - val_mean_absolute_error: 2
      5679
1257 Epoch 552/20000
1258 - 0s - loss: 15.7340 -
     mean_absolute_error: 2.8323 - val_loss
       18.1441 - val_mean_absolute_error: 2
      6967
1259 Epoch 553/20000
1260 - 0s - loss: 11.6743 -
     mean_absolute_error: 2.4476 - val_loss
       16.1385 - val_mean_absolute_error: 2
     5297
1261 Epoch 554/20000
1262 - Os - Loss: 14.3679 -
     mean_absolute_error: 2.7980 - val_loss
      15.8665 - val_mean_absolute_error: 2
```

```
File - boston01
     . 5948
1262
1263 Epoch 555/20000
1264 - 0s - loss: 11.5542 -
     mean_absolute_error: 2.5832 - val_loss
       15.7592 - val_mean_absolute_error: 2
      5292
1265 Epoch 556/20000
1266 - 0s - loss: 15.2113 -
     mean_absolute_error: 2.7703 - val_loss
       16.8177 - val_mean_absolute_error:
      5903
1267 Epoch 557/20000
1268 - 0s - loss: 13.5574 -
     mean_absolute_error: 2.8459 - val_loss
       18.1719 - val_mean_absolute_error: 2
      7448
1269 Epoch 558/20000
1270 - 0s - loss: 12.9226 -
     mean_absolute_error: 2.7156 - val_loss
       16.5086 - val_mean_absolute_error:
      6570
1271 Epoch 559/20000
1272 - 0s - loss: 13.3918 -
     mean_absolute_error: 2.5917 - val_loss
```

```
18.5568 - val_mean_absolute_error: 2
1272
     6990
1273 Epoch 560/20000
     - Os - Loss: 13.1379 -
1274
     mean_absolute_error: 2.7149 - val_loss
      16.9052 - val_mean_absolute_error: 2
     . 6030
1275
1276 Epoch 00560: saving model to ./model/
     model_best.h5
1277 Epoch 561/20000
1278 - 0s - loss: 13.1220 -
     mean_absolute_error: 2.7015 - val_loss
       18.0791 - val_mean_absolute_error: 2
     7600
1279 Epoch 562/20000
1280 - 0s - loss: 12.4373 -
     mean_absolute_error: 2.5579 - val_loss
      16.6677 - val_mean_absolute_error: 2
     5552
1281 Epoch 563/20000
1282 - Os - Loss: 14.3090 -
     mean_absolute_error: 2.7471 - val_loss
     16.2323 - val_mean_absolute_error: 2
```

```
File - boston01
      . 5409
1282
1283 Epoch 564/20000
      - 0s - Loss: 11.1943 -
1284 l
     mean_absolute_error: 2.6173 - val_loss
       16.1305 - val_mean_absolute_error: 2
      5336
1285 Epoch 565/20000
1286 - 0s - Loss: 12.1912 -
     mean_absolute_error: 2.5924 - val_loss
       16.7487 - val_mean_absolute_error:
      5588
1287 Epoch 566/20000
1288 - 0s - loss: 11.2824 -
     mean_absolute_error: 2.4851 - val_loss
       16.6112 - val_mean_absolute_error:
      5418
1289 Epoch 567/20000
1290 - 0s - loss: 12.0425 -
     mean_absolute_error: 2.5482 - val_loss
       16.5570 - val_mean_absolute_error:
      5627
1291 Epoch 568/20000
1292 - 0s - loss: 11.8783 -
     mean_absolute_error: 2.6291 - val_l<u>oss</u>
```

```
16.5976 - val_mean_absolute_error: 2
1292
     5672
1293 Epoch 569/20000
     - 0s - loss: 15.5175 -
1294
     mean_absolute_error: 2.8709 - val_loss
      16.9320 - val_mean_absolute_error: 2
      6023
1295 Epoch 570/20000
     - 0s - loss: 12.9579 -
1296
     mean_absolute_error: 2.5751 - val_loss
      15.9244 - val_mean_absolute_error: 2
     . 6067
1297
    Epoch 00570: saving model to ./model/
1298
     model_best.h5
1299 Epoch 571/20000
1300 - 0s - loss: 14.0858 -
     mean_absolute_error: 2.7856 - val_loss
      15.6906 - val_mean_absolute_error: 2
     5031
1301 Epoch 572/20000
1302 - 0s - loss: 11.0867 -
     mean_absolute_error: 2.5040 - val_loss
     16.0800 - val_mean_absolute_error: 2
```

```
File - boston01
1302
     . 5257
1303 Epoch 573/20000
1304 - 0s - loss: 13.9829 -
     mean_absolute_error: 2.7793 - val_loss
       16.2242 - val_mean_absolute_error: 2
      5665
1305 Epoch 574/20000
1306 - 0s - loss: 13.1489 -
     mean_absolute_error: 2.6866 - val_loss
       17.1003 - val_mean_absolute_error:
      5685
1307 Epoch 575/20000
1308 - 0s - loss: 11.4148 -
     mean_absolute_error: 2.4506 - val_loss
       16.2804 - val_mean_absolute_error:
      5292
1309 Epoch 576/20000
1310 - 0s - loss: 12.5762 -
     mean_absolute_error: 2.5937 - val_loss
       16.5975 - val_mean_absolute_error:
      5246
1311 Epoch 577/20000
1312 - 0s - loss: 13.5085 -
     mean_absolute_error: 2.6760 - val_loss
```

```
: 17.0959 - val_mean_absolute_error: 2
1312
     5774
1313 Epoch 578/20000
1314 - Os - Loss: 12.5834 -
     mean_absolute_error: 2.6591 - val_loss
       15.5801 - val_mean_absolute_error: 2
      4727
1315 Epoch 579/20000
1316 - 0s - loss: 11.7501 -
     mean_absolute_error: 2.5794 - val_loss
       16.9165 - val_mean_absolute_error: 2
      6333
1317 Epoch 580/20000
     - Os - loss: 13.7495 -
1318
     mean_absolute_error: 2.7103 - val_loss
      15.2731 - val_mean_absolute_error: 2
     . 5042
1319
1320 Epoch 00580: saving model to ./model/
     model_best.h5
1321 Epoch 581/20000
1322 - Os - Loss: 13.5720 -
     mean_absolute_error: 2.8006 - val_loss
     15.6878 - val_mean_absolute_error: 2
```

```
File - boston01
      . 4962
1322
1323 Epoch 582/20000
1324 - 0s - loss: 11.7265 -
     mean_absolute_error: 2.4686 - val_loss
       15.6957 - val_mean_absolute_error: 2
      5442
1325 Epoch 583/20000
1326 - 0s - loss: 13.0981 -
     mean_absolute_error: 2.6608 - val_loss
       16.3473 - val_mean_absolute_error:
      5591
1327 Epoch 584/20000
1328 - Os - Loss: 12.9422 -
     mean_absolute_error: 2.5285 - val_loss
       16.0798 - val_mean_absolute_error:
      5098
1329 Epoch 585/20000
1330 - 0s - loss: 11.0520 -
     mean_absolute_error: 2.5150 - val_loss
       16.5882 - val_mean_absolute_error:
      5442
1331 Epoch 586/20000
1332 - 0s - loss: 13.7671 -
     mean_absolute_error: 2.6074 - val_loss
```

```
17.4979 - val_mean_absolute_error: 2
1332
     6744
1333 Epoch 587/20000
1334 - Os - Loss: 12.7831 -
     mean_absolute_error: 2.5656 - val_loss
       16.0575 - val_mean_absolute_error: 2
      5835
1335 Epoch 588/20000
     - 0s - loss: 12.4978 -
1336
     mean_absolute_error: 2.6576 - val_loss
       17.7756 - val_mean_absolute_error: 2
      6209
1337 Epoch 589/20000
     - 0s - loss: 15.5376 -
1338
     mean_absolute_error: 2.7223 - val_loss
       16.0255 - val_mean_absolute_error: 2
      5338
1339 Epoch 590/20000
1340 - 0s - loss: 13.4262 -
     mean_absolute_error: 2.7656 - val_loss
       15.8431 - val_mean_absolute_error: 2
     . 5176
1341
1342 Epoch 00590: saving model to ./model/
```

```
15.9449 - val_mean_absolute_error: 2
1352
      4853
1353 Epoch 596/20000
     - 0s - loss: 12.9311 -
1354
     mean_absolute_error: 2.6173 - val_loss
       15.3031 - val_mean_absolute_error: 2
      4926
1355 Epoch 597/20000
     - 0s - loss: 12.6677 -
1356
     mean_absolute_error: 2.6221 - val_loss
       16.0006 - val_mean_absolute_error: 2
      4880
1357 Epoch 598/20000
     - 0s - loss: 12.6177 -
1358
     mean_absolute_error: 2.7152 - val_loss
      15.3729 - val_mean_absolute_error: 2
      5065
1359 Epoch 599/20000
1360 - 0s - loss: 13.1396 -
     mean_absolute_error: 2.7856 - val_loss
       15.6406 - val_mean_absolute_error: 2
      5218
1361 Epoch 600/20000
     - 0s - loss: 9.4876 -
1362
```

```
1362 mean_absolute_error: 2.4190 - val_loss
       15.8427 - val_mean_absolute_error: 2
     . 5166
1363
1364 Epoch 00600: saving model to ./model/
     model_best.h5
1365 Epoch 601/20000
1366 - Os - Loss: 12.7888 -
     mean_absolute_error: 2.5429 - val_loss
     : 16.1442 - val_mean_absolute_error: 2
      5014
1367 Epoch 602/20000
1368 - 0s - loss: 10.9281 -
     mean_absolute_error: 2.4801 - val_loss
       17.0033 - val_mean_absolute_error: 2
      5663
1369 Epoch 603/20000
1370 - 0s - loss: 13.0092 -
     mean_absolute_error: 2.6807 - val_loss
       15.9886 - val_mean_absolute_error:
     4848
1371 Epoch 604/20000
1372 - 0s - loss: 12.2431 -
     mean_absolute_error: 2.7730 - val_l<u>oss</u>
```

```
18.3717 - val_mean_absolute_error: 2
1372
     6488
1373 Epoch 605/20000
     - 0s - loss: 13.1440 -
1374
     mean_absolute_error: 2.6725 - val_loss
       15.8816 - val_mean_absolute_error: 2
      4940
1375 Epoch 606/20000
     - 0s - loss: 11.4906 -
1376
     mean_absolute_error: 2.5954 - val_loss
       16.0504 - val_mean_absolute_error: 2
     5157
1377 Epoch 607/20000
     - Os - loss: 12.7472 -
1378
     mean_absolute_error: 2.5944 - val_loss
      15.5692 - val_mean_absolute_error: 2
     4967
1379 Epoch 608/20000
1380 - 0s - loss: 13.7750 -
     mean_absolute_error: 2.6124 - val_loss
       15.9253 - val_mean_absolute_error: 2
      5276
1381 Epoch 609/20000
     - 0s - loss: 11.8497
1382
```

```
1382 mean_absolute_error: 2.5556 - val_loss
       16.4555 - val_mean_absolute_error: 2
      5708
1383 Epoch 610/20000
     - 0s - loss: 13.9008 -
1384
     mean_absolute_error: 2.8027 - val_loss
       17.2933 - val_mean_absolute_error: 2
     . 5776
1385
1386 Epoch 00610: saving model to ./model/
     model_best.h5
1387 Epoch 611/20000
1388 - Os - Loss: 12.5928 -
     mean_absolute_error: 2.6537 - val_loss
       16.3336 - val_mean_absolute_error: 2
      5264
1389 Epoch 612/20000
1390 - 0s - loss: 12.7591 -
     mean_absolute_error: 2.5696 - val_loss
       15.7512 - val_mean_absolute_error:
     5560
1391 Epoch 613/20000
1392 - 0s - loss: 13.0734 -
     mean_absolute_error: 2.6683 - val_loss
```

```
15.7383 - val_mean_absolute_error: 2
1392
     4891
1393 Epoch 614/20000
     - 0s - loss: 12.9966 -
1394
     mean_absolute_error: 2.6678 - val_loss
       15.4955 - val_mean_absolute_error: 2
     5100
1395 Epoch 615/20000
     - 0s - loss: 11.3691 -
1396
     mean_absolute_error: 2.4947 - val_loss
       15.4598 - val_mean_absolute_error: 2
      4714
1397 Epoch 616/20000
     - 0s - loss: 10.5343 -
1398
     mean_absolute_error: 2.4386 - val_loss
       15.7011 - val_mean_absolute_error: 2
      4772
1399 Epoch 617/20000
1400 - 0s - loss: 13.0894 -
     mean_absolute_error: 2.7279 - val_loss
       15.6659 - val_mean_absolute_error: 2
      4885
1401 Epoch 618/20000
     - 0s - loss: 13.0402
1402 l
```

```
1402 mean_absolute_error: 2.6180 - val_loss
       15.7807 - val_mean_absolute_error: 2
      4823
1403 Epoch 619/20000
1404 - 0s - loss: 11.8381 -
     mean_absolute_error: 2.5911 - val_loss
       16.0713 - val_mean_absolute_error: 2
     . 5116
1405 Epoch 620/20000
1406 - 0s - loss: 12.0216 -
     mean_absolute_error: 2.5719 - val_loss
       15.8843 - val_mean_absolute_error: 2
     . 5321
1407
1408 Epoch 00620: saving model to ./model/
     model_best.h5
1409 Epoch 621/20000
1410 - 0s - loss: 14.3281 -
     mean_absolute_error: 2.7591 - val_loss
       15.0516 - val_mean_absolute_error: 2
     4411
1411 Epoch 622/20000
1412 - 0s - loss: 16.0945 -
     mean_absolute_error: 2.8780 - val_loss
```

```
: 15.2038 - val_mean_absolute_error: 2
1412
     4317
1413 Epoch 623/20000
     - 0s - loss: 14.0324 -
1414
     mean_absolute_error: 2.6188 - val_loss
       15.5055 - val_mean_absolute_error: 2
     4677
1415 Epoch 624/20000
1416
     - 0s - loss: 15.9944 -
     mean_absolute_error: 2.7962 - val_loss
       16.0826 - val_mean_absolute_error: 2
      4676
1417 Epoch 625/20000
     - 0s - loss: 11.0585 -
1418
     mean_absolute_error: 2.3969 - val_loss
     15.4186 - val_mean_absolute_error: 2
     5214
1419 Epoch 626/20000
1420 - 0s - loss: 11.9776 -
     mean_absolute_error: 2.5408 - val_loss
       14.8894 - val_mean_absolute_error: 2
      4284
1421 Epoch 627/20000
1422 - Os - Loss: 12.6809 -
```

```
1422 mean_absolute_error: 2.5679 - val_loss
       14.7487 - val_mean_absolute_error: 2
      3854
1423 Epoch 628/20000
1424 - 0s - loss: 15.2102 -
     mean_absolute_error: 2.8170 - val_loss
       14.9266 - val_mean_absolute_error: 2
     4354
1425 Epoch 629/20000
1426 - Os - Loss: 11.7622 -
     mean_absolute_error: 2.5443 - val_loss
       14.6746 - val_mean_absolute_error: 2
     3964
1427 Epoch 630/20000
1428 - 0s - loss: 10.6119 -
     mean_absolute_error: 2.4376 - val_loss
     15.0592 - val_mean_absolute_error:
     . 3775
1429
1430 Epoch 00630: saving model to ./model/
     model_best.h5
1431 Epoch 631/20000
1432 - 0s - loss: 11.2031 -
     mean_absolute_error: 2.5074 - val_l<u>oss</u>
```

```
14.7051 - val_mean_absolute_error: 2
1432
     3665
1433 Epoch 632/20000
     - 0s - loss: 11.6010 -
1434
     mean_absolute_error: 2.4989 - val_loss
       14.6396 - val_mean_absolute_error: 2
      4129
1435 Epoch 633/20000
     - 0s - loss: 12.4410 -
1436
     mean_absolute_error: 2.6996 - val_loss
       15.1249 - val_mean_absolute_error: 2
      4798
1437 Epoch 634/20000
1438
     - 0s - loss: 12.6574 -
     mean_absolute_error: 2.6074 - val_loss
      16.8256 - val_mean_absolute_error: 2
     6350
1439 Epoch 635/20000
1440 - 0s - loss: 13.0986 -
     mean_absolute_error: 2.5299 - val_loss
       16.0462 - val_mean_absolute_error: 2
      5096
1441 Epoch 636/20000
     - 0s - loss: 14.1804 -
1442
```

```
1442 mean_absolute_error: 2.6844 - val_loss
       15.4113 - val_mean_absolute_error: 2
      4357
1443 Epoch 637/20000
1444 - 0s - loss: 11.1723 -
     mean_absolute_error: 2.4331 - val_loss
       15.2769 - val_mean_absolute_error: 2
     5026
1445 Epoch 638/20000
1446 - 0s - loss: 12.4314 -
     mean_absolute_error: 2.4922 - val_loss
       15.6218 - val_mean_absolute_error: 2
     6073
1447 Epoch 639/20000
1448 - 0s - loss: 13.2463 -
     mean_absolute_error: 2.7114 - val_loss
     : 15.9438 - val_mean_absolute_error: 2
     5081
1449 Epoch 640/20000
     - 0s - loss: 9.7621 -
1450
     mean_absolute_error: 2.3620 - val_loss
       15.1344 - val_mean_absolute_error:
     . 4731
1451
```

Page 145 of 1152

```
1452 Epoch 00640: saving model to ./model/
     model best.h5
1453 Epoch 641/20000
1454 - Os - Loss: 12.5397 -
     mean_absolute_error: 2.6164 - val_loss
       15.9436 - val_mean_absolute_error: 2
     4728
1455 Epoch 642/20000
     - Os - Loss: 12.3489 -
1456
     mean_absolute_error: 2.6310 - val_loss
       16.3442 - val_mean_absolute_error: 2
     6523
1457 Epoch 643/20000
1458
     - 0s - loss: 12.4477 -
     mean_absolute_error: 2.6433 - val_loss
     16.5838 - val_mean_absolute_error: 2
     . 5605
1459 Epoch 644/20000
1460 - 0s - loss: 12.7615 -
     mean_absolute_error: 2.7127 - val_loss
       15.6360 - val_mean_absolute_error: 2
      5160
1461 Epoch 645/20000
     - 0s - loss: 13.8354
1462
```

```
1462 mean_absolute_error: 2.6917 - val_loss
       15.5733 - val_mean_absolute_error: 2
      4481
1463 Epoch 646/20000
1464 - 0s - loss: 11.1917 -
     mean_absolute_error: 2.5180 - val_loss
       15.2809 - val_mean_absolute_error: 2
     4383
1465 Epoch 647/20000
1466 - 0s - loss: 10.3852 -
     mean_absolute_error: 2.4015 - val_loss
       14.8949 - val_mean_absolute_error: 2
      4492
1467 Epoch 648/20000
1468 - 0s - loss: 14.6879 -
     mean_absolute_error: 2.6034 - val_loss
       15.4952 - val_mean_absolute_error:
      4923
1469 Epoch 649/20000
1470 - 0s - loss: 10.7598 -
     mean_absolute_error: 2.4133 - val_loss
       14.9959 - val_mean_absolute_error:
      4213
1471 Epoch 650/20000
```

```
- 0s - loss: 12.9079 -
1472
     mean_absolute_error: 2.5867 - val_loss
       15.7389 - val_mean_absolute_error: 2
     4748
1473
    Epoch 00650: saving model to ./model/
1474
     model_best.h5
1475 Epoch 651/20000
     - 0s - loss: 12.2098 -
1476
     mean_absolute_error: 2.6327 - val_loss
       15.7763 - val_mean_absolute_error: 2
      5243
1477 Epoch 652/20000
     - Os - loss: 12.7174 -
1478
     mean_absolute_error: 2.6427 - val_loss
       15.7664 - val_mean_absolute_error: 2
      4944
1479 Epoch 653/20000
1480 - 0s - loss: 12.2630 -
     mean_absolute_error: 2.7123 - val_loss
       16.1039 - val_mean_absolute_error: 2
      5466
1481 Epoch 654/20000
     - 0s - loss: 13.4511
1482 l
```

```
1482 mean_absolute_error: 2.6314 - val_loss
       16.0581 - val_mean_absolute_error: 2
      6221
1483 Epoch 655/20000
1484 - 0s - loss: 10.4064 -
     mean_absolute_error: 2.4648 - val_loss
       16.9335 - val_mean_absolute_error: 2
     5746
1485 Epoch 656/20000
1486 - Os - Loss: 11.8937 -
     mean_absolute_error: 2.6091 - val_loss
       15.7958 - val_mean_absolute_error: 2
     5484
1487 Epoch 657/20000
1488 - 0s - loss: 13.2168 -
     mean_absolute_error: 2.6122 - val_loss
     : 15.9079 - val_mean_absolute_error:
     . 5152
1489 Epoch 658/20000
1490 - 0s - loss: 13.1988 -
     mean_absolute_error: 2.6482 - val_loss
       16.4523 - val_mean_absolute_error:
      5041
1491 Epoch 659/20000
```

```
- 0s - loss: 12.8775 -
1492
     mean_absolute_error: 2.6169 - val_loss
       16.2219 - val_mean_absolute_error: 2
      4903
1493 Epoch 660/20000
     - 0s - loss: 14.6514 -
1494
     mean_absolute_error: 2.7598 - val_loss
      16.2875 - val_mean_absolute_error: 2
     4713
1495
1496 Epoch 00660: saving model to ./model/
     model_best.h5
1497 Epoch 661/20000
     - 0s - loss: 11.5178 -
1498
     mean_absolute_error: 2.5337 - val_loss
      15.6445 - val_mean_absolute_error: 2
     4515
1499 Epoch 662/20000
1500 - 0s - loss: 11.9799 -
     mean_absolute_error: 2.5838 - val_loss
       16.2494 - val_mean_absolute_error: 2
     5116
1501 Epoch 663/20000
1502 - 0s - loss: 10.8932
```

```
1502 mean_absolute_error: 2.4237 - val_loss
       15.6527 - val_mean_absolute_error: 2
     4631
1503 Epoch 664/20000
1504 - 0s - loss: 11.9454 -
     mean_absolute_error: 2.6405 - val_loss
       15.8899 - val_mean_absolute_error: 2
     4542
1505 Epoch 665/20000
1506 - Os - Loss: 11.9234 -
     mean_absolute_error: 2.5365 - val_loss
       16.5169 - val_mean_absolute_error: 2
     5253
1507 Epoch 666/20000
1508 - 0s - Loss: 10.6997 -
     mean_absolute_error: 2.4904 - val_loss
      15.8468 - val_mean_absolute_error:
     4756
1509 Epoch 667/20000
1510 - 0s - loss: 12.9267 -
     mean_absolute_error: 2.6049 - val_loss
       15.3420 - val_mean_absolute_error:
      4665
1511 Epoch 668/20000
```

```
- 0s - loss: 12.6043 -
1512
     mean_absolute_error: 2.5748 - val_loss
       15.6658 - val_mean_absolute_error: 2
      4550
1513 Epoch 669/20000
1514 - Os - Loss: 11.8419 -
     mean_absolute_error: 2.5662 - val_loss
       15.2003 - val_mean_absolute_error: 2
      4354
1515 Epoch 670/20000
1516 - 0s - Loss: 11.1708 -
     mean_absolute_error: 2.5151 - val_loss
       15.2883 - val_mean_absolute_error:
     . 3922
1517
    Epoch 00670: saving model to ./model/
1518
     model_best.h5
1519 Epoch 671/20000
1520 - 0s - loss: 12.8960 -
     mean_absolute_error: 2.6246 - val_loss
       16.5413 - val_mean_absolute_error: 2
      4798
1521 Epoch 672/20000
1522 - 0s - loss: 14.5644
```

```
1522 mean_absolute_error: 2.7392 - val_loss
       15.5461 - val_mean_absolute_error: 2
      4728
1523 Epoch 673/20000
1524 - Os - Loss: 11.3492 -
     mean_absolute_error: 2.5158 - val_loss
       15.8115 - val_mean_absolute_error: 2
     4827
1525 Epoch 674/20000
1526 - Os - Loss: 10.5541 -
     mean_absolute_error: 2.4554 - val_loss
       16.2671 - val_mean_absolute_error: 2
     4883
1527 Epoch 675/20000
1528 - 0s - loss: 12.8502 -
     mean_absolute_error: 2.5623 - val_loss
      15.4304 - val_mean_absolute_error: 2
     4810
1529 Epoch 676/20000
1530 - 0s - loss: 12.4553 -
     mean_absolute_error: 2.5834 - val_loss
       15.8109 - val_mean_absolute_error:
      4791
1531 Epoch 677/20000
```

```
- 0s - loss: 12.2913 -
1532
     mean_absolute_error: 2.5741 - val_loss
       17.9666 - val_mean_absolute_error:
      6838
1533 Epoch 678/20000
     - 0s - loss: 12.1071 -
1534
     mean_absolute_error: 2.6377 - val_loss
       16.1938 - val_mean_absolute_error:
      4968
1535 Epoch 679/20000
1536 - 0s - loss: 12.8850 -
     mean_absolute_error: 2.5223 - val_loss
       17.2671 - val_mean_absolute_error:
     5714
1537 Epoch 680/20000
     - 0s - loss: 13.8672 -
1538
     mean_absolute_error: 2.6940 - val_loss
       15.8955 - val_mean_absolute_error: 2
     4760
1539
    Epoch 00680: saving model to ./model/
1540
     model_best.h5
1541 Epoch 681/20000
     - 0s - loss: 13.3119
1542 l
```

```
1542 mean_absolute_error: 2.6028 - val_loss
       15.6344 - val_mean_absolute_error: 2
      4210
1543 Epoch 682/20000
1544 - Os - Loss: 12.1591 -
     mean_absolute_error: 2.6262 - val_loss
       16.1839 - val_mean_absolute_error: 2
     5888
1545 Epoch 683/20000
1546 - 0s - loss: 12.9804 -
     mean_absolute_error: 2.6566 - val_loss
       16.1646 - val_mean_absolute_error: 2
     5494
1547 Epoch 684/20000
1548 - Os - Loss: 14.8456 -
     mean_absolute_error: 2.7640 - val_loss
       17.6617 - val_mean_absolute_error:
      5794
1549 Epoch 685/20000
     - 0s - loss: 11.0749 -
1550 l
     mean_absolute_error: 2.4096 - val_loss
       16.2712 - val_mean_absolute_error:
      5028
1551 Epoch 686/20000
```

```
- 0s - loss: 13.5553 -
1552
     mean_absolute_error: 2.6660 - val_loss
       15.4919 - val_mean_absolute_error: 2
      5274
1553 Epoch 687/20000
     - 0s - loss: 11.4083 -
1554
     mean_absolute_error: 2.5213 - val_loss
       16.4602 - val_mean_absolute_error:
      5642
1555 Epoch 688/20000
1556 - Os - Loss: 11.3632 -
     mean_absolute_error: 2.4293 - val_loss
       15.2188 - val_mean_absolute_error: 2
     4583
1557 Epoch 689/20000
     - 0s - loss: 11.8471 -
1558
     mean_absolute_error: 2.5956 - val_loss
       15.3600 - val_mean_absolute_error: 2
      4254
1559 Epoch 690/20000
     - 0s - loss: 14.2442 -
1560
     mean_absolute_error: 2.7277 - val_loss
     : 15.3576 - val_mean_absolute_error: 2
     4119
```

```
1561
    Epoch 00690: saving model to ./model/
1562
     model_best.h5
1563 Epoch 691/20000
1564 - 0s - loss: 11.8163 -
     mean_absolute_error: 2.5892 - val_loss
       16.6068 - val_mean_absolute_error: 2
     5225
1565 Epoch 692/20000
1566 - 0s - loss: 14.3016 -
     mean_absolute_error: 2.6974 - val_loss
       17.5288 - val_mean_absolute_error: 2
      6172
1567 Epoch 693/20000
1568 - Os - Loss: 13.4949 -
     mean_absolute_error: 2.5205 - val_loss
       16.0536 - val_mean_absolute_error:
     4863
1569 Epoch 694/20000
1570 - 0s - loss: 13.2460 -
     mean_absolute_error: 2.6324 - val_loss
       15.7751 - val_mean_absolute_error:
      4781
1571 Epoch 695/20000
```

```
- 0s - loss: 12.7994 -
1572
     mean_absolute_error: 2.6284 - val_loss
       15.5643 - val_mean_absolute_error: 2
      4756
1573 Epoch 696/20000
     - 0s - loss: 11.6701 -
1574
     mean_absolute_error: 2.5150 - val_loss
       16.0879 - val_mean_absolute_error:
      6078
1575 Epoch 697/20000
1576 - 0s - loss: 13.3355 -
     mean_absolute_error: 2.6839 - val_loss
       15.1998 - val_mean_absolute_error: 2
     4747
1577 Epoch 698/20000
     - 0s - loss: 12.3414 -
1578 l
     mean_absolute_error: 2.5999 - val_loss
       15.1234 - val_mean_absolute_error: 2
      4407
1579 Epoch 699/20000
     - Os - Loss: 14.5451 -
1580
     mean_absolute_error: 2.6701 - val_loss
     14.9477 - val_mean_absolute_error: 2
     4382
```

```
File - boston01
    Epoch 700/20000
1581
      - 0s - loss: 12.0896 -
1582
     mean_absolute_error: 2.5605 - val_loss
       15.0492 - val_mean_absolute_error: 2
      4362
1583
     Epoch 00700: saving model to ./model/
1584
     model_best.h5
1585 Epoch 701/20000
1586 - Os - Loss: 11.2370 -
     mean_absolute_error: 2.4791 - val_loss
       15.1344 - val_mean_absolute_error: 2
      4771
1587 Epoch 702/20000
1588 - 0s - loss: 13.6657 -
     mean_absolute_error: 2.7256 - val_loss
       15.1836 - val_mean_absolute_error:
      4876
1589 Epoch 703/20000
      - 0s - loss: 10.9794 -
1590
     mean_absolute_error: 2.4719 - val_loss
       14.9531 - val_mean_absolute_error:
      3975
1591 Epoch 704/20000
```

```
- 0s - loss: 13.6866 -
1592
     mean_absolute_error: 2.6484 - val_loss
       15.2792 - val_mean_absolute_error: 2
      4481
1593 Epoch 705/20000
     - 0s - Loss: 13.5194 -
1594
     mean_absolute_error: 2.6938 - val_loss
       15.2049 - val_mean_absolute_error: 2
     4198
1595 Epoch 706/20000
1596 - Os - Loss: 11.3947 -
     mean_absolute_error: 2.6157 - val_loss
       15.3644 - val_mean_absolute_error: 2
     4209
1597 Epoch 707/20000
     - 0s - loss: 10.8096 -
1598
     mean_absolute_error: 2.3995 - val_loss
       16.0705 - val_mean_absolute_error: 2
      5516
1599 Epoch 708/20000
     - 0s - loss: 12.2928 -
1600
     mean_absolute_error: 2.5916 - val_loss
       15.1024 - val_mean_absolute_error: 2
```

Page 161 of 1152

5017

1611 Epoch 713/20000

```
- 0s - loss: 13.0569 -
1612
     mean_absolute_error: 2.6413 - val_loss
       15.3806 - val_mean_absolute_error: 2
      4333
1613 Epoch 714/20000
1614 - 0s - loss: 13.4068 -
     mean_absolute_error: 2.6653 - val_loss
       16.2901 - val_mean_absolute_error: 2
      5251
1615 Epoch 715/20000
1616 - Os - Loss: 10.5338 -
     mean_absolute_error: 2.4571 - val_loss
       14.6300 - val_mean_absolute_error: 2
     3652
1617 Epoch 716/20000
1618 - 0s - loss: 14.6418 -
     mean_absolute_error: 2.6492 - val_loss
       15.2426 - val_mean_absolute_error: 2
      4336
1619 Epoch 717/20000
     - 0s - loss: 12.1428 -
1620 l
     mean_absolute_error: 2.4872 - val_loss
     : 14.8630 - val_mean_absolute_error: 2
     4054
```

4344

1631 Epoch 722/20000

```
- 0s - loss: 12.5558 -
1632
     mean_absolute_error: 2.6232 - val_loss
       16.2602 - val_mean_absolute_error: 2
      5236
1633 Epoch 723/20000
1634 - 0s - loss: 9.1370 -
     mean_absolute_error: 2.3478 - val_loss
       15.2888 - val_mean_absolute_error: 2
      3999
1635 Epoch 724/20000
1636 - 0s - loss: 12.1079 -
     mean_absolute_error: 2.5582 - val_loss
       18.8020 - val_mean_absolute_error: 2
     . 8027
1637 Epoch 725/20000
     - 0s - Loss: 10.6962 -
1638
     mean_absolute_error: 2.5002 - val_loss
       15.0899 - val_mean_absolute_error: 2
      4099
1639 Epoch 726/20000
     - 0s - loss: 11.9240 -
1640
     mean_absolute_error: 2.4905 - val_loss
     : 15.6792 - val_mean_absolute_error: 2
     4330
```

Page 165 of 1152

model_best.h5

1651 Epoch 731/20000

```
- 0s - loss: 10.6072 -
1652
     mean_absolute_error: 2.3526 - val_loss
       14.9330 - val_mean_absolute_error: 2
      4353
1653 Epoch 732/20000
1654 - 0s - loss: 11.4882 -
     mean_absolute_error: 2.5071 - val_loss
       15.1840 - val_mean_absolute_error: 2
      3739
1655 Epoch 733/20000
1656 - 0s - loss: 13.2579 -
     mean_absolute_error: 2.6052 - val_loss
       15.4386 - val_mean_absolute_error: 2
     3944
1657 Epoch 734/20000
     - 0s - Loss: 9.4484 -
1658
     mean_absolute_error: 2.3416 - val_loss
       15.8776 - val_mean_absolute_error: 2
      4350
1659 Epoch 735/20000
     - 0s - loss: 11.4590 -
1660
     mean_absolute_error: 2.4794 - val_loss
       14.5914 - val_mean_absolute_error: 2
     3696
```

1669 Epoch 740/20000

1670 - 0s - loss: 12.1640 - mean_absolute_error: 2.5983 - val_loss : 15.5876 - val_mean_absolute_error: 2

1689 Epoch 749/20000

1690 - 0s - loss: 11.8285 mean_absolute_error: 2.4465 - val_loss 14.5359 - val_mean_absolute_error: 2

```
File - boston01
1690 . 3646
1691 Epoch 750/20000
1692 - 0s - loss: 13.0630 -
     mean_absolute_error: 2.6589 - val_loss
       15.0402 - val_mean_absolute_error: 2
      3755
1693
1694 Epoch 00750: saving model to ./model/
     model_best.h5
1695 Epoch 751/20000
1696 - 0s - loss: 11.1946 -
     mean_absolute_error: 2.5116 - val_loss
       15.4676 - val_mean_absolute_error: 2
      4530
1697 Epoch 752/20000
      - 0s - loss: 13.4391 -
1698
     mean_absolute_error: 2.6516 - val_loss
       15.8074 - val_mean_absolute_error: 2
      6540
1699 Epoch 753/20000
1700 - Os - Loss: 9.4188 -
     mean_absolute_error: 2.3026 - val_loss
      14.9954 - val_mean_absolute_error: 2
      3743
```

1709 Epoch 758/20000

1710 - 0s - loss: 13.2941 - mean_absolute_error: 2.6707 - val_loss : 14.3477 - val_mean_absolute_error: 2

```
File - boston01
1710 . 3270
1711 Epoch 759/20000
1712 - 0s - loss: 12.2934 -
     mean_absolute_error: 2.5670 - val_loss
       15.4056 - val_mean_absolute_error: 2
      4332
1713 Epoch 760/20000
1714 - 0s - Loss: 12.0158 -
     mean_absolute_error: 2.5514 - val_loss
     : 14.9012 - val_mean_absolute_error:
      . 3435
1715
1716 Epoch 00760: saving model to ./model/
     model_best.h5
1717 Epoch 761/20000
1718 - 0s - loss: 11.6125 -
     mean_absolute_error: 2.4768 - val_loss
       15.2196 - val_mean_absolute_error: 2
      3837
1719 Epoch 762/20000
1720 - 0s - loss: 9.9982 -
     mean_absolute_error: 2.3069 - val_loss
     : 15.1429 - val_mean_absolute_error: 2
      3357
```

1729 Epoch 767/20000

1730 - 0s - loss: 11.9219 - mean_absolute_error: 2.5772 - val_loss : 16.6884 - val_mean_absolute_error: 2

```
File - boston01
1730 . 4943
1731 Epoch 768/20000
1732 - 0s - loss: 10.5777 -
     mean_absolute_error: 2.4241 - val_loss
       14.9843 - val_mean_absolute_error: 2
      3371
1733 Epoch 769/20000
1734 - 0s - loss: 10.2048 -
     mean_absolute_error: 2.3807 - val_loss
       14.7975 - val_mean_absolute_error: 2
      3688
1735 Epoch 770/20000
1736 - Os - Loss: 11.7737 -
     mean_absolute_error: 2.5434 - val_loss
       14.5735 - val_mean_absolute_error:
      . 3695
1737
1738 Epoch 00770: saving model to ./model/
     model_best.h5
1739 Epoch 771/20000
1740 - 0s - loss: 12.8063 -
     mean_absolute_error: 2.6437 - val_loss
     : 16.5437 - val_mean_absolute_error: 2
      5098
```

1746 - 0s - loss: 10.9288 - mean_absolute_error: 2.4170 - val_loss : 15.4129 - val_mean_absolute_error: 2 . 4571

1747 Epoch 775/20000

1748 - 0s - loss: 12.1010 - mean_absolute_error: 2.4542 - val_loss : 15.1162 - val_mean_absolute_error: 2 .4107

1749 Epoch 776/20000

1750 - Os - Loss: 11.4148 - mean_absolute_error: 2.4938 - val_loss : 14.9002 - val_mean_absolute_error: 2

```
File - boston01
1750 . 4100
1751 Epoch 777/20000
1752 - 0s - loss: 11.9227 -
     mean_absolute_error: 2.4680 - val_loss
       14.9267 - val_mean_absolute_error: 2
      3681
1753 Epoch 778/20000
1754 - 0s - loss: 12.6173 -
     mean_absolute_error: 2.5997 - val_loss
       14.8391 - val_mean_absolute_error:
      3638
1755 Epoch 779/20000
1756 - 0s - loss: 11.9908 -
     mean_absolute_error: 2.4581 - val_loss
       15.5759 - val_mean_absolute_error: 2
      4112
1757 Epoch 780/20000
1758 - 0s - loss: 12.1585 -
     mean_absolute_error: 2.5498 - val_loss
     : 16.0617 - val_mean_absolute_error:
      . 5079
1759
1760 Epoch 00780: saving model to ./model/
     model_best.h5
```

1769 Epoch 785/20000

1770 - 0s - loss: 12.2508 - mean_absolute_error: 2.5641 - val_loss : 16.3784 - val_mean_absolute_error: 2

```
File - boston01
1770 . 4969
1771 Epoch 786/20000
1772 - 0s - loss: 9.8795
     mean_absolute_error: 2.4180 - val_loss
       15.7387 - val_mean_absolute_error: 2
      4118
1773 Epoch 787/20000
1774 - Os - Loss: 9.7492 -
     mean_absolute_error: 2.2895 - val_loss
     : 15.0539 - val_mean_absolute_error: 2
      3938
1775 Epoch 788/20000
1776 - 0s - loss: 11.6490 -
     mean_absolute_error: 2.5860 - val_loss
       14.7088 - val_mean_absolute_error: 2
      4807
1777 Epoch 789/20000
1778 - 0s - loss: 12.0302 -
     mean_absolute_error: 2.4946 - val_loss
       16.1118 - val_mean_absolute_error:
      . 5075
1779 Epoch 790/20000
1780 - 0s - loss: 12.6461 -
     mean_absolute_error: 2.5331 - val_loss
```

```
14.6303 - val_mean_absolute_error: 2
1780
     3633
1781
1782 Epoch 00790: saving model to ./model/
     model_best.h5
1783 Epoch 791/20000
1784 - 0s - loss: 12.7496 -
     mean_absolute_error: 2.6033 - val_loss
       14.9958 - val_mean_absolute_error: 2
     3917
1785 Epoch 792/20000
1786 - 0s - loss: 11.5892 -
     mean_absolute_error: 2.5957 - val_loss
       14.8995 - val_mean_absolute_error: 2
     3975
1787 Epoch 793/20000
1788 - 0s - loss: 12.0344 -
     mean_absolute_error: 2.4697 - val_loss
      14.3262 - val_mean_absolute_error: 2
     3674
1789 Epoch 794/20000
1790 - 0s - loss: 10.5126 -
     mean_absolute_error: 2.4494 - val_loss
     14.2883 - val_mean_absolute_error: 2
```

```
File - boston01
1790 . 4518
1791 Epoch 795/20000
1792 - 0s - Loss: 12.6373 -
     mean_absolute_error: 2.5659 - val_loss
       14.4240 - val_mean_absolute_error: 2
      3210
1793 Epoch 796/20000
1794 - 0s - loss: 13.6972 -
     mean_absolute_error: 2.6325 - val_loss
      : 14.3708 - val_mean_absolute_error:
      3606
1795 Epoch 797/20000
1796 - 0s - loss: 10.8693 -
     mean_absolute_error: 2.4788 - val_loss
       14.1878 - val_mean_absolute_error:
      3669
1797 Epoch 798/20000
1798 - 0s - Loss: 10.8387 -
     mean_absolute_error: 2.5371 - val_loss
       14.8354 - val_mean_absolute_error:
      3936
1799 Epoch 799/20000
1800 - Os - Loss: 10.9338 -
     mean_absolute_error: 2.3814 - val_l<u>oss</u>
```

```
15.4531 - val_mean_absolute_error: 2
1800
     4076
1801 Epoch 800/20000
     - 0s - loss: 8.6109 -
1802
     mean_absolute_error: 2.2288 - val_loss
      15.2807 - val_mean_absolute_error: 2
     . 3851
1803
    Epoch 00800: saving model to ./model/
1804
     model best.h5
1805 Epoch 801/20000
1806 - Os - Loss: 10.1112 -
     mean_absolute_error: 2.4049 - val_loss
       14.9682 - val_mean_absolute_error: 2
      4037
1807 Epoch 802/20000
     - 0s - loss: 10.5728 -
1808 l
     mean_absolute_error: 2.4484 - val_loss
       15.0822 - val_mean_absolute_error: 2
      3996
1809 Epoch 803/20000
1810 - 0s - loss: 9.3233
     mean_absolute_error: 2.3827 - val_loss
     16.0911 - val_mean_absolute_error: 2
```

```
File - boston01
1810 . 7213
1811 Epoch 804/20000
1812 - Os - Loss: 15.4644 -
     mean_absolute_error: 2.7235 - val_loss
       14.9228 - val_mean_absolute_error: 2
      3902
1813 Epoch 805/20000
1814 - Os - Loss: 12.1058 -
     mean_absolute_error: 2.4700 - val_loss
       13.9493 - val_mean_absolute_error:
      3079
1815 Epoch 806/20000
1816 - 0s - loss: 9.4965 -
     mean_absolute_error: 2.2820 - val_loss
       15.1115 - val_mean_absolute_error:
      4288
1817 Epoch 807/20000
1818 - Os - Loss: 10.6598 -
     mean_absolute_error: 2.4552 - val_loss
       15.3988 - val_mean_absolute_error:
      . 5034
1819 Epoch 808/20000
1820 - Os - Loss: 11.0428 -
     mean_absolute_error: 2.5217 - val_loss
```

```
15.0358 - val_mean_absolute_error: 2
1820
     4192
1821 Epoch 809/20000
1822 - Os - Loss: 13.2007 -
     mean_absolute_error: 2.5370 - val_loss
       14.5836 - val_mean_absolute_error: 2
      3349
1823 Epoch 810/20000
1824
     - 0s - loss: 11.6981 -
     mean_absolute_error: 2.4339 - val_loss
      14.4404 - val_mean_absolute_error: 2
     3413
1825
    Epoch 00810: saving model to ./model/
1826
     model_best.h5
1827 Epoch 811/20000
1828 - Os - Loss: 11.4559 -
     mean_absolute_error: 2.5072 - val_loss
      14.7400 - val_mean_absolute_error: 2
     3287
1829 Epoch 812/20000
1830 - Os - Loss: 11.9739 -
     mean_absolute_error: 2.4585 - val_loss
     14.4514 - val_mean_absolute_error: 2
```

```
File - boston01
1830 . 3238
1831 Epoch 813/20000
      - 0s - l<u>oss: 11.701</u>1 -
1832
     mean_absolute_error: 2.4754 - val_loss
       14.6105 - val_mean_absolute_error: 2
      3531
1833 Epoch 814/20000
1834 - Os - Loss: 11.3749 -
     mean_absolute_error: 2.4556 - val_loss
       15.4549 - val_mean_absolute_error:
      3637
1835 Epoch 815/20000
1836 - 0s - loss: 10.9104 -
     mean_absolute_error: 2.5074 - val_loss
       14.4958 - val_mean_absolute_error:
      3641
1837 Epoch 816/20000
1838 - 0s - loss: 9.6871
     mean_absolute_error: 2.3203 - val_loss
       14.9644 - val_mean_absolute_error:
      3580
1839 Epoch 817/20000
1840 - 0s - loss: 9.9660 -
     mean_absolute_error: 2.3473 - val loss
```

```
14.4642 - val_mean_absolute_error: 2
1840
     3170
1841 Epoch 818/20000
1842 - 0s - loss: 11.0900 -
     mean_absolute_error: 2.4680 - val_loss
      15.5039 - val_mean_absolute_error: 2
     3982
1843 Epoch 819/20000
     - 0s - loss: 13.3247 -
1844 I
     mean_absolute_error: 2.6209 - val_loss
       16.0167 - val_mean_absolute_error: 2
      4944
1845 Epoch 820/20000
     - 0s - loss: 10.8784 -
1846
     mean_absolute_error: 2.5185 - val_loss
      14.5070 - val_mean_absolute_error: 2
     2908
1847
1848 Epoch 00820: saving model to ./model/
     model_best.h5
1849 Epoch 821/20000
1850 - 0s - loss: 9.6624
     mean_absolute_error: 2.3172 - val_loss
     14.6309 - val_mean_absolute_error: 2
```

```
File - boston01
1850 . 3455
1851 Epoch 822/20000
1852
      - 0s - loss: 12.0399 -
     mean_absolute_error: 2.4934 - val_loss
       15.4643 - val_mean_absolute_error: 2
      3980
1853 Epoch 823/20000
1854 - 0s - loss: 11.7278 -
     mean_absolute_error: 2.5802 - val_loss
       15.7982 - val_mean_absolute_error:
      4085
1855 Epoch 824/20000
1856 - Os - Loss: 10.8831 -
     mean_absolute_error: 2.3418 - val_loss
       14.9831 - val_mean_absolute_error:
      3724
1857 Epoch 825/20000
1858 - Os - Loss: 10.4897 -
     mean_absolute_error: 2.3176 - val_loss
       14.6842 - val_mean_absolute_error:
      3516
1859 Epoch 826/20000
1860 - Os - Loss: 12.7344 -
     mean_absolute_error: 2.5391 - val_loss
```

```
15.8874 - val_mean_absolute_error:
1860
      4648
1861 Epoch 827/20000
1862 - 0s - Loss: 12.0086 -
     mean_absolute_error: 2.5422 - val_loss
       16.2459 - val_mean_absolute_error: 2
      4774
1863 Epoch 828/20000
     - 0s - loss: 10.4645 -
1864 l
     mean_absolute_error: 2.4186 - val_loss
       16.2596 - val_mean_absolute_error: 2
      4644
1865 Epoch 829/20000
1866
     - 0s - loss: 12.9028 -
     mean_absolute_error: 2.4600 - val_loss
       15.0327 - val_mean_absolute_error: 2
      3899
1867 Epoch 830/20000
     - 0s - loss: 10.0940 -
1868
     mean_absolute_error: 2.3402 - val_loss
       15.1104 - val_mean_absolute_error: 2
     3819
1869
    Epoch 00830: saving model to ./model/
1870
```

```
15.6021 - val_mean_absolute_error: 2
1880
      3629
1881 Epoch 836/20000
     - 0s - loss: 11.1166 -
1882
     mean_absolute_error: 2.4002 - val_loss
       15.0680 - val_mean_absolute_error: 2
      3830
1883 Epoch 837/20000
     - 0s - loss: 11.9211 -
1884
     mean_absolute_error: 2.5941 - val_loss
       15.2366 - val_mean_absolute_error: 2
      3296
1885 Epoch 838/20000
     - 0s - loss: 12.1619 -
1886
     mean_absolute_error: 2.5816 - val_loss
      14.6570 - val_mean_absolute_error: 2
      3400
1887 Epoch 839/20000
     - Os - Loss: 12.4992 -
1888
     mean_absolute_error: 2.5401 - val_loss
       14.6738 - val_mean_absolute_error: 2
      2963
1889 Epoch 840/20000
1890 - Os - Loss: 12.4657 -
```

```
1890 mean_absolute_error: 2.6104 - val_loss
       14.9595 - val_mean_absolute_error: 2
     3441
1891
1892 Epoch 00840: saving model to ./model/
     model_best.h5
1893 Epoch 841/20000
1894 - 0s - loss: 13.2850 -
     mean_absolute_error: 2.5121 - val_loss
      14.9819 - val_mean_absolute_error: 2
      3840
1895 Epoch 842/20000
1896 - 0s - loss: 11.6901 -
     mean_absolute_error: 2.5365 - val_loss
       14.3508 - val_mean_absolute_error:
      3285
1897 Epoch 843/20000
1898 - 0s - loss: 10.6095 -
     mean_absolute_error: 2.4551 - val_loss
       15.5863 - val_mean_absolute_error:
     4209
1899 Epoch 844/20000
1900 - 0s - loss: 13.0872 -
     mean_absolute_error: 2.4793 - val_loss
```

```
14.9143 - val_mean_absolute_error: 2
1900
     3472
1901 Epoch 845/20000
     - 0s - Loss: 11.3953 -
1902
     mean_absolute_error: 2.5173 - val_loss
       14.2245 - val_mean_absolute_error: 2
     3770
1903 Epoch 846/20000
     - 0s - loss: 9.5330 -
1904
     mean_absolute_error: 2.2499 - val_loss
       15.0678 - val_mean_absolute_error: 2
      3889
1905 Epoch 847/20000
     - 0s - Loss: 12.1251 -
1906
     mean_absolute_error: 2.5742 - val_loss
       14.7470 - val_mean_absolute_error: 2
     4129
1907 Epoch 848/20000
     - 0s - loss: 11.4939 -
1908
     mean_absolute_error: 2.6067 - val_loss
       14.6749 - val_mean_absolute_error: 2
      3180
1909 Epoch 849/20000
1910 - 0s - loss: 9.7093
```

```
1910 mean_absolute_error: 2.2956 - val_loss
       14.5464 - val_mean_absolute_error: 2
      3645
1911 Epoch 850/20000
1912 - Os - Loss: 11.9553 -
     mean_absolute_error: 2.4705 - val_loss
       15.2224 - val_mean_absolute_error: 2
     . 5101
1913
1914 Epoch 00850: saving model to ./model/
     model_best.h5
1915 Epoch 851/20000
1916 - Os - Loss: 12.1344 -
     mean_absolute_error: 2.5879 - val_loss
       15.2681 - val_mean_absolute_error: 2
      3612
1917 Epoch 852/20000
1918 - Os - Loss: 11.3855 -
     mean_absolute_error: 2.5867 - val_loss
       14.6556 - val_mean_absolute_error:
      3241
1919 Epoch 853/20000
1920 - Os - Loss: 9.5440 -
     mean_absolute_error: 2.3171 - val_loss
```

```
14.9838 - val_mean_absolute_error: 2
1920
     3022
1921 Epoch 854/20000
1922 - Os - Loss: 13.8527 -
     mean_absolute_error: 2.6425 - val_loss
       14.9860 - val_mean_absolute_error: 2
      4768
1923 Epoch 855/20000
     - 0s - loss: 12.0603 -
1924
     mean_absolute_error: 2.5437 - val_loss
       14.6662 - val_mean_absolute_error: 2
      3053
1925 Epoch 856/20000
     - 0s - loss: 11.6471 -
1926
     mean_absolute_error: 2.3356 - val_loss
       14.7727 - val_mean_absolute_error: 2
     2793
1927 Epoch 857/20000
1928 - 0s - loss: 10.4497 -
     mean_absolute_error: 2.3958 - val_loss
       14.6715 - val_mean_absolute_error: 2
      3083
1929 Epoch 858/20000
1930 - Os - Loss: 12.4912 -
```

```
1930 mean_absolute_error: 2.4458 - val_loss
       14.2867 - val_mean_absolute_error: 2
      2958
1931 Epoch 859/20000
1932 - 0s - loss: 9.6244 -
     mean_absolute_error: 2.3583 - val_loss
       14.9745 - val_mean_absolute_error: 2
     3392
1933 Epoch 860/20000
1934 - 0s - loss: 10.9112 -
     mean_absolute_error: 2.4447 - val_loss
       15.2792 - val_mean_absolute_error: 2
     3998
1935
1936 Epoch 00860: saving model to ./model/
     model_best.h5
1937 Epoch 861/20000
1938 - 0s - Loss: 12.0343 -
     mean_absolute_error: 2.5191 - val_loss
       14.9564 - val_mean_absolute_error:
     4604
1939 Epoch 862/20000
1940 - 0s - loss: 11.2623 -
     mean_absolute_error: 2.5476 - val_loss
```

```
14.6149 - val_mean_absolute_error: 2
1940 I
      3826
1941 Epoch 863/20000
     - Os - loss: 11.5641 -
1942
     mean_absolute_error: 2.4028 - val_loss
       14.6531 - val_mean_absolute_error: 2
      3739
1943 Epoch 864/20000
     - 0s - loss: 10.2309 -
1944
     mean_absolute_error: 2.4119 - val_loss
       16.6940 - val_mean_absolute_error: 2
      6164
1945 Epoch 865/20000
     - 0s - loss: 14.1490 -
1946
     mean_absolute_error: 2.4797 - val_loss
      15.0894 - val_mean_absolute_error: 2
      4065
1947 Epoch 866/20000
     - 0s - loss: 10.7671 -
1948
     mean_absolute_error: 2.4478 - val_loss
       14.9446 - val_mean_absolute_error: 2
      3805
1949 Epoch 867/20000
1950 - 0s - loss: 9.6216 -
```

```
1950 mean_absolute_error: 2.2984 - val_loss
       14.9358 - val_mean_absolute_error: 2
      3978
1951 Epoch 868/20000
1952 - 0s - loss: 10.4652 -
     mean_absolute_error: 2.3765 - val_loss
       14.3778 - val_mean_absolute_error: 2
      3744
1953 Epoch 869/20000
1954 - Os - Loss: 10.3157 -
     mean_absolute_error: 2.4129 - val_loss
       14.2904 - val_mean_absolute_error: 2
     3494
1955 Epoch 870/20000
1956 - Os - Loss: 12.8444 -
     mean_absolute_error: 2.5642 - val_loss
     : 14.7135 - val_mean_absolute_error:
     . 3669
1957
    Epoch 00870: saving model to ./model/
1958
     model_best.h5
1959 Epoch 871/20000
1960 - 0s - loss: 11.2720 -
     mean_absolute_error: 2.4266 - val_loss
```

```
14.5384 - val_mean_absolute_error: 2
1960
     4036
1961 Epoch 872/20000
1962 - Os - Loss: 11.4653 -
     mean_absolute_error: 2.4862 - val_loss
       14.6685 - val_mean_absolute_error: 2
      4219
1963 Epoch 873/20000
     - 0s - loss: 11.4423 -
1964
     mean_absolute_error: 2.5603 - val_loss
       15.8389 - val_mean_absolute_error: 2
      4619
1965 Epoch 874/20000
     - 0s - loss: 13.8934 -
1966
     mean_absolute_error: 2.6202 - val_loss
       15.2474 - val_mean_absolute_error: 2
     4414
1967 Epoch 875/20000
     - 0s - loss: 10.1118 -
1968
     mean_absolute_error: 2.3456 - val_loss
       14.8363 - val_mean_absolute_error: 2
      4654
1969 Epoch 876/20000
1970 - 0s - loss: 11.6998
```

```
1970 mean_absolute_error: 2.5301 - val_loss
       14.1394 - val_mean_absolute_error: 2
1971 Epoch 877/20000
1972 - 0s - loss: 11.0790 -
     mean_absolute_error: 2.4834 - val_loss
       14.5579 - val_mean_absolute_error: 2
      3689
1973 Epoch 878/20000
1974 - 0s - loss: 11.6621 -
     mean_absolute_error: 2.4845 - val_loss
       14.6272 - val_mean_absolute_error: 2
     3866
1975 Epoch 879/20000
1976 - Os - Loss: 10.5739 -
     mean_absolute_error: 2.3831 - val_loss
       14.9689 - val_mean_absolute_error:
      4289
1977 Epoch 880/20000
     - 0s - Loss: 10.1915 -
1978
     mean_absolute_error: 2.4610 - val_loss
       14.3238 - val_mean_absolute_error:
     . 3624
1979
```

```
1980 Epoch 00880: saving model to ./model/
     model best.h5
1981 Epoch 881/20000
1982 - 0s - loss: 12.6214 -
     mean_absolute_error: 2.4890 - val_loss
       15.6338 - val_mean_absolute_error: 2
      4877
1983 Epoch 882/20000
     - 0s - loss: 11.3923 -
1984
     mean_absolute_error: 2.4631 - val_loss
       14.3938 - val_mean_absolute_error: 2
      3551
1985 Epoch 883/20000
     - 0s - loss: 8.9534 -
1986
     mean_absolute_error: 2.2919 - val_loss
       14.2312 - val_mean_absolute_error: 2
     3598
1987 Epoch 884/20000
     - 0s - loss: 11.4150 -
1988 l
     mean_absolute_error: 2.4858 - val_loss
       14.9262 - val_mean_absolute_error: 2
      5570
1989 Epoch 885/20000
1990 - 0s - loss: 10.4765 -
```

```
1990 mean_absolute_error: 2.3444 - val_loss
       14.4331 - val_mean_absolute_error: 2
      3612
1991 Epoch 886/20000
1992 - 0s - loss: 11.0529 -
     mean_absolute_error: 2.5046 - val_loss
       14.6788 - val_mean_absolute_error: 2
      3889
1993 Epoch 887/20000
1994 - 0s - loss: 10.9550 -
     mean_absolute_error: 2.3994 - val_loss
       14.6912 - val_mean_absolute_error: 2
     3498
1995 Epoch 888/20000
1996 - Os - Loss: 11.9659 -
     mean_absolute_error: 2.4956 - val_loss
       15.4215 - val_mean_absolute_error:
      4488
1997 Epoch 889/20000
     - 0s - loss: 11.9450 -
1998
     mean_absolute_error: 2.4232 - val_loss
       14.8041 - val_mean_absolute_error:
      4666
1999 Epoch 890/20000
```

2008 - Os - Loss: 11.8960 - mean_absolute_error: 2.4526 - val_loss : 15.1275 - val_mean_absolute_error: 2 .4223

2009 Epoch 894/20000

2010 - Os - Loss: 10.8390 -

```
2010 mean_absolute_error: 2.4307 - val_loss
       15.4218 - val_mean_absolute_error: 2
      4477
2011 Epoch 895/20000
2012 - 0s - loss: 11.7160 -
     mean_absolute_error: 2.3857 - val_loss
       15.1271 - val_mean_absolute_error: 2
     5304
2013 Epoch 896/20000
2014 - 0s - loss: 11.1409 -
     mean_absolute_error: 2.5413 - val_loss
       14.9423 - val_mean_absolute_error: 2
     3543
2015 Epoch 897/20000
2016 - 0s - Loss: 10.8228 -
     mean_absolute_error: 2.3113 - val_loss
     : 14.9983 - val_mean_absolute_error: 2
     3808
2017 Epoch 898/20000
2018 - 0s - loss: 10.1358 -
     mean_absolute_error: 2.4192 - val_loss
       14.4727 - val_mean_absolute_error:
2019 Epoch 899/20000
```

2028 - 0s - loss: 10.0016 - mean_absolute_error: 2.4255 - val_loss : 14.5019 - val_mean_absolute_error: 2 . 3451

2029 Epoch 903/20000

2030 - 0s - loss: 11.6900 -

```
2030 mean_absolute_error: 2.4758 - val_loss
       15.5433 - val_mean_absolute_error: 2
      4114
2031 Epoch 904/20000
2032 - 0s - Loss: 9.3989 -
     mean_absolute_error: 2.3786 - val_loss
       14.7608 - val_mean_absolute_error: 2
      3054
2033 Epoch 905/20000
2034 - Os - Loss: 12.4894 -
     mean_absolute_error: 2.5588 - val_loss
       14.5480 - val_mean_absolute_error: 2
     2894
2035 Epoch 906/20000
2036 - 0s - loss: 9.2016 -
     mean_absolute_error: 2.2146 - val_loss
     : 15.5368 - val_mean_absolute_error: 2
     . 5519
2037 Epoch 907/20000
     - 0s - loss: 10.6478 -
2038
     mean_absolute_error: 2.3418 - val_loss
       15.0630 - val_mean_absolute_error:
      3277
2039 Epoch 908/20000
```

```
- 0s - loss: 9.7964 -
```

```
mean_absolute_error: 2.3447 - val_loss
```

: 15.2685 - val_mean_absolute_error: 2

. 4041

2041 Epoch 909/20000

2042 - Os - Loss: 12.3032 -

mean_absolute_error: 2.4948 - val_loss

14.7364 - val_mean_absolute_error: 2

3400

2043 Epoch 910/20000

2044 - 0s - loss: 10.3778 -

mean_absolute_error: 2.3434 - val_loss

: 15.1968 - val_mean_absolute_error:

. 3729

2045

2046 Epoch 00910: saving model to ./model/

model_best.h5

2047 Epoch 911/20000

2048 - 0s - loss: 13.0408 -

mean_absolute_error: 2.5021 - val_loss

: 14.6737 - val_mean_absolute_error: 2

3703

2049 Epoch 912/20000

2050 - Os - Loss: 13.4947 -

```
2050 mean_absolute_error: 2.6693 - val_loss
       14.7083 - val_mean_absolute_error: 2
      3862
2051 Epoch 913/20000
2052 - Os - Loss: 11.4602 -
     mean_absolute_error: 2.5452 - val_loss
       14.4448 - val_mean_absolute_error: 2
      3168
2053 Epoch 914/20000
2054 - 0s - loss: 10.1284 -
     mean_absolute_error: 2.2172 - val_loss
       15.6421 - val_mean_absolute_error: 2
      4499
2055 Epoch 915/20000
2056 - 0s - loss: 11.3809 -
     mean_absolute_error: 2.4574 - val_loss
     14.9680 - val_mean_absolute_error: 2
     3256
2057 Epoch 916/20000
     - 0s - loss: 11.7538 -
2058
     mean_absolute_error: 2.4644 - val_loss
       14.5192 - val_mean_absolute_error:
      3285
2059 Epoch 917/20000
```

```
- 0s - loss: 11.2306 -
2060
     mean_absolute_error: 2.4468 - val_loss
       14.3538 - val_mean_absolute_error:
      3442
2061 Epoch 918/20000
     - 0s - loss: 8.5833 -
2062
     mean_absolute_error: 2.1968 - val_loss
       15.3499 - val_mean_absolute_error: 2
      4006
2063 Epoch 919/20000
2064 - Os - Loss: 12.4745 -
     mean_absolute_error: 2.6035 - val_loss
       16.4964 - val_mean_absolute_error: 2
      5593
2065 Epoch 920/20000
     - 0s - Loss: 11.6955 -
2066
     mean_absolute_error: 2.4923 - val_loss
       14.4077 - val_mean_absolute_error: 2
     4377
2067
    Epoch 00920: saving model to ./model/
2068
     model_best.h5
2069 Epoch 921/20000
2070 - Os - Loss: 11.4711
```

```
2070 mean_absolute_error: 2.4665 - val_loss
       14.1220 - val_mean_absolute_error: 2
      3437
2071 Epoch 922/20000
2072 - 0s - loss: 11.0133 -
     mean_absolute_error: 2.4281 - val_loss
       13.8261 - val_mean_absolute_error: 2
      3323
2073 Epoch 923/20000
2074 - 0s - loss: 11.1426 -
     mean_absolute_error: 2.2709 - val_loss
       13.9302 - val_mean_absolute_error: 2
     3061
2075 Epoch 924/20000
2076 - 0s - loss: 12.8242 -
     mean_absolute_error: 2.6416 - val_loss
       14.1753 - val_mean_absolute_error: 2
      3052
2077 Epoch 925/20000
     - 0s - loss: 9.8889 -
2078
     mean_absolute_error: 2.3499 - val_loss
       14.8176 - val_mean_absolute_error:
      4009
2079 Epoch 926/20000
```

```
- 0s - loss: 13.2775 -
```

mean_absolute_error: 2.6417 - val_loss : 14.8742 - val_mean_absolute_error: 2

3213

2081 Epoch 927/20000

2082 - Os - Loss: 11.4147 -

mean_absolute_error: 2.5201 - val_loss

: 14.7984 - val_mean_absolute_error: 2

. 4173

2083 Epoch 928/20000

2084 - 0s - loss: 9.0059 -

mean_absolute_error: 2.2605 - val_loss

: 14.3549 - val_mean_absolute_error: 2

3138

2085 Epoch 929/20000

2086 - 0s - loss: 10.7571 -

mean_absolute_error: 2.4146 - val_loss

: 14.4434 - val_mean_absolute_error: 2

2940

2087 Epoch 930/20000

2088 - 0s - loss: 12.3226 -

mean_absolute_error: 2.4533 - val_loss

: 14.0745 - val_mean_absolute_error: 2

. 3376

```
2089
2090 Epoch 00930: saving model to ./model/
     model_best.h5
2091 Epoch 931/20000
2092 - 0s - loss: 12.6522 -
     mean_absolute_error: 2.4861 - val_loss
       14.5160 - val_mean_absolute_error: 2
      3969
2093 Epoch 932/20000
2094 - 0s - loss: 11.3146 -
     mean_absolute_error: 2.5080 - val_loss
       15.3255 - val_mean_absolute_error: 2
      4094
2095 Epoch 933/20000
2096 - 0s - loss: 10.4370 -
     mean_absolute_error: 2.3662 - val_loss
       14.7014 - val_mean_absolute_error:
      3550
2097 Epoch 934/20000
     - 0s - loss: 8.5602 -
2098
     mean_absolute_error: 2.2637 - val_loss
       14.7090 - val_mean_absolute_error:
2099 Epoch 935/20000
```

```
- 0s - loss: 13.0275 -
2100
     mean_absolute_error: 2.6004 - val_loss
       14.5057 - val_mean_absolute_error: 2
      3306
2101 Epoch 936/20000
2102 - 0s - loss: 11.2211 -
     mean_absolute_error: 2.4666 - val_loss
       14.9625 - val_mean_absolute_error: 2
      3801
2103 Epoch 937/20000
2104 - 0s - loss: 14.0541 -
     mean_absolute_error: 2.6287 - val_loss
       14.5482 - val_mean_absolute_error: 2
     3515
2105 Epoch 938/20000
2106 - 0s - loss: 11.1704 -
     mean_absolute_error: 2.4242 - val_loss
       14.2360 - val_mean_absolute_error: 2
      3634
2107 Epoch 939/20000
     - 0s - loss: 9.2241 -
2108
     mean_absolute_error: 2.2864 - val_loss
     14.9061 - val_mean_absolute_error: 2
     4208
```

```
- 0s - loss: 9.9987 -
2120
     mean_absolute_error: 2.3951 - val_loss
       14.7305 - val_mean_absolute_error: 2
      4159
2121 Epoch 945/20000
2122 - 0s - loss: 11.0118 -
     mean_absolute_error: 2.5062 - val_loss
       15.2838 - val_mean_absolute_error: 2
      4319
2123 Epoch 946/20000
2124 - 0s - Loss: 11.2289 -
     mean_absolute_error: 2.4420 - val_loss
       14.8463 - val_mean_absolute_error: 2
     3766
2125 Epoch 947/20000
2126 - 0s - loss: 11.4194 -
     mean_absolute_error: 2.3974 - val_loss
       14.9682 - val_mean_absolute_error: 2
      5042
2127 Epoch 948/20000
     - 0s - loss: 10.8524 -
2128
     mean_absolute_error: 2.4058 - val_loss
     : 15.1867 - val_mean_absolute_error: 2
     3809
```

```
- 0s - loss: 10.0569 -
2140
     mean_absolute_error: 2.3282 - val_loss
       14.9614 - val_mean_absolute_error: 2
      4081
2141 Epoch 954/20000
2142 - 0s - loss: 9.7905 -
     mean_absolute_error: 2.4259 - val_loss
       15.4174 - val_mean_absolute_error: 2
      4227
2143 Epoch 955/20000
2144 - 0s - loss: 9.5406 -
     mean_absolute_error: 2.3203 - val_loss
       15.6655 - val_mean_absolute_error: 2
     4220
2145 Epoch 956/20000
2146 - 0s - loss: 11.6102 -
     mean_absolute_error: 2.5237 - val_loss
       15.5921 - val_mean_absolute_error: 2
      4416
2147 Epoch 957/20000
     - 0s - loss: 11.4266 -
2148
     mean_absolute_error: 2.4617 - val_loss
     : 15.0595 - val_mean_absolute_error: 2
     4242
```

```
File - boston01
2149 Epoch 958/20000
      - 0s - loss: 11.6622 -
2150
     mean_absolute_error: 2.4580 - val_loss
       15.0623 - val_mean_absolute_error: 2
      3710
2151 Epoch 959/20000
      - 0s - loss: 9.6679 -
2152
     mean_absolute_error: 2.2967 - val_loss
       14.8384 - val_mean_absolute_error: 2
      3954
2153 Epoch 960/20000
2154 - 0s - loss: 8.7699 -
     mean_absolute_error: 2.1803 - val_loss
       15.2542 - val_mean_absolute_error: 2
      . 4118
2155
2156 Epoch 00960: saving model to ./model/
     model_best.h5
2157 Epoch 961/20000
2158 - 0s - loss: 8.8758 -
     mean_absolute_error: 2.2348 - val_loss
       15.1238 - val_mean_absolute_error:
      3911
2159 Epoch 962/20000
```

```
- 0s - loss: 8.9656 -
2160
     mean_absolute_error: 2.2582 - val_loss
       14.8797 - val_mean_absolute_error: 2
      3698
2161 Epoch 963/20000
2162 - 0s - loss: 10.7645 -
     mean_absolute_error: 2.4392 - val_loss
       14.8265 - val_mean_absolute_error: 2
      3846
2163 Epoch 964/20000
2164 - 0s - loss: 10.2232 -
     mean_absolute_error: 2.3001 - val_loss
       14.2412 - val_mean_absolute_error: 2
      4002
2165 Epoch 965/20000
     - 0s - loss: 9.3774 -
2166
     mean_absolute_error: 2.3567 - val_loss
       14.6588 - val_mean_absolute_error: 2
      3677
2167 Epoch 966/20000
     - 0s - loss: 9.7914 -
2168
     mean_absolute_error: 2.2918 - val_loss
       13.8142 - val_mean_absolute_error: 2
     3048
```

model_best.h5

2179 Epoch 971/20000

```
- 0s - loss: 11.6608 -
2180
     mean_absolute_error: 2.4554 - val_loss
       14.5132 - val_mean_absolute_error: 2
      3788
2181 Epoch 972/20000
2182 - 0s - loss: 11.7607 -
     mean_absolute_error: 2.5262 - val_loss
       14.1604 - val_mean_absolute_error: 2
      3369
2183 Epoch 973/20000
2184 - Os - Loss: 10.9564 -
     mean_absolute_error: 2.4372 - val_loss
       15.4444 - val_mean_absolute_error: 2
      4456
2185 Epoch 974/20000
     - 0s - loss: 11.5378 -
2186
     mean_absolute_error: 2.3144 - val_loss
       13.8800 - val_mean_absolute_error: 2
      3528
2187 Epoch 975/20000
     - 0s - loss: 11.0065 -
2188
     mean_absolute_error: 2.4386 - val_loss
       14.3771 - val_mean_absolute_error: 2
     3361
```

14.3501 - val_mean_absolute_error: 2

```
File - boston01
2198 . 3809
2199
2200 Epoch 00980: saving model to ./model/
     model_best.h5
2201 Epoch 981/20000
2202 - 0s - loss: 10.7569 -
     mean_absolute_error: 2.3368 - val_loss
       13.7187 - val_mean_absolute_error: 2
      2774
2203 Epoch 982/20000
2204 - 0s - loss: 11.0100 -
     mean_absolute_error: 2.4783 - val_loss
       14.5071 - val_mean_absolute_error: 2
      3621
2205 Epoch 983/20000
      - 0s - loss: 9.1664 -
2206
     mean_absolute_error: 2.2578 - val loss
       15.6147 - val_mean_absolute_error: 2
      4071
2207 Epoch 984/20000
      - 0s - loss: 10.8320 -
2208
     mean_absolute_error: 2.4050 - val_loss
       14.5577 - val_mean_absolute_error: 2
```

2218 - 0s - loss: 7.5487 - mean_absolute_error: 2.1868 - val_loss : 14.8171 - val_mean_absolute_error: 2

```
File - boston01
2218 . 3589
2219 Epoch 990/20000
2220 - 0s - loss: 8.1094
     mean_absolute_error: 2.1159 - val_loss
       14.0516 - val_mean_absolute_error: 2
      3286
2221
Epoch 00990: saving model to ./model/
     model_best.h5
2223 Epoch 991/20000
2224 - 0s - loss: 9.4149 -
     mean_absolute_error: 2.3348 - val_loss
       14.2974 - val_mean_absolute_error: 2
      3256
2225 Epoch 992/20000
2226 - Os - Loss: 9.7213 -
     mean_absolute_error: 2.2628 - val_loss
       14.8824 - val_mean_absolute_error: 2
      3898
2227 Epoch 993/20000
     - 0s - loss: 9.0467 -
2228
     mean_absolute_error: 2.2395 - val_loss
     : 14.1477 - val_mean_absolute_error: 2
      3780
```

mean_absolute_error: 2.3974 - val_loss

14.5867 - val_mean_absolute_error: 2

```
File - boston01
2238 . 3578
2239 Epoch 999/20000
2240 - 0s - loss: 9.1084
     mean_absolute_error: 2.2536 - val_loss
       14.3788 - val_mean_absolute_error: 2
      3282
2241 Epoch 1000/20000
2242 - 0s - loss: 10.2860 -
     mean_absolute_error: 2.1825 - val_loss
     : 14.5685 - val_mean_absolute_error:
      . 3646
2243
2244 Epoch 01000: saving model to ./model/
     model best.h5
2245 Epoch 1001/20000
      - Os - Loss: 9.9354 -
2246
     mean_absolute_error: 2.4219 - val_loss
       14.0336 - val_mean_absolute_error: 2
      3454
2247 Epoch 1002/20000
      - 0s - loss: 9.5585 -
2248
     mean_absolute_error: 2.3439 - val_loss
     : 14.5605 - val_mean_absolute_error: 2
      3660
```

```
File - boston01
2258 . 3638
2259 Epoch 1008/20000
2260 - Os - Loss: 13.3913 -
     mean_absolute_error: 2.5574 - val_loss
       14.2415 - val_mean_absolute_error: 2
      3624
2261 Epoch 1009/20000
2262 - 0s - loss: 9.7994 -
     mean_absolute_error: 2.3633 - val_loss
       14.7646 - val_mean_absolute_error:
      4005
2263 Epoch 1010/20000
2264 - 0s - loss: 8.7924 -
     mean_absolute_error: 2.2855 - val_loss
       14.6726 - val_mean_absolute_error:
      . 3971
2265
2266 Epoch 01010: saving model to ./model/
     model_best.h5
2267 Epoch 1011/20000
      - 0s - loss: 11.5938 -
2268
     mean_absolute_error: 2.4796 - val_loss
     : 14.2274 - val_mean_absolute_error: 2
      4049
```

14.7967 - val_mean_absolute_error: 2

```
File - boston01
     . 3250
2278
2279 Epoch 1017/20000
2280 - 0s - loss: 9.9576
     mean_absolute_error: 2.2667 - val_loss
       14.2832 - val_mean_absolute_error: 2
      3326
2281 Epoch 1018/20000
2282 - Os - Loss: 10.4127 -
     mean_absolute_error: 2.3837 - val_loss
       14.1827 - val_mean_absolute_error:
      3317
2283 Epoch 1019/20000
2284 - 0s - loss: 9.7052 -
     mean_absolute_error: 2.3160 - val_loss
       14.1404 - val_mean_absolute_error: 2
      3346
2285 Epoch 1020/20000
     - 0s - loss: 11.3859 -
2286
     mean_absolute_error: 2.3995 - val_loss
       14.0737 - val_mean_absolute_error:
      . 3307
2287
     Epoch 01020: saving model to ./model/
2288
     model_best.h5
```

```
File - boston01
     . 3369
2298
2299 Epoch 1026/20000
2300 - 0s - loss: 10.6623 -
     mean_absolute_error: 2.4534 - val_loss
       14.2509 - val_mean_absolute_error: 2
      3741
2301 Epoch 1027/20000
2302 - 0s - loss: 11.8609 -
     mean_absolute_error: 2.5114 - val_loss
       15.4112 - val_mean_absolute_error:
      4687
2303 Epoch 1028/20000
2304 - 0s - loss: 10.3980 -
     mean_absolute_error: 2.3424 - val_loss
       13.8828 - val_mean_absolute_error: 2
      2923
2305 Epoch 1029/20000
2306 - Os - Loss: 12.1784 -
     mean_absolute_error: 2.4780 - val_loss
       13.8834 - val_mean_absolute_error:
      3367
2307 Epoch 1030/20000
      - 0s - loss: 9.1556 -
2308
     mean_absolute_error: 2.3132 - val_loss
```

```
14.0014 - val_mean_absolute_error: 2
2308
     3178
2309
2310 Epoch 01030: saving model to ./model/
     model_best.h5
2311 Epoch 1031/20000
     - 0s - loss: 8.8878 -
2312
     mean_absolute_error: 2.2453 - val_loss
       14.8386 - val_mean_absolute_error: 2
      4356
2313 Epoch 1032/20000
2314 - 0s - loss: 12.4926 -
     mean_absolute_error: 2.4593 - val_loss
       14.0876 - val_mean_absolute_error: 2
     3180
2315 Epoch 1033/20000
     - 0s - loss: 11.0695 -
2316
     mean_absolute_error: 2.4775 - val_loss
       15.0686 - val_mean_absolute_error: 2
      4488
2317 Epoch 1034/20000
2318 - Os - Loss: 10.7593 -
     mean_absolute_error: 2.4393 - val_loss
     14.0869 - val_mean_absolute_error: 2
```

```
File - boston01
2318 . 3240
2319 Epoch 1035/20000
2320 - 0s - loss: 9.2589
     mean_absolute_error: 2.2879 - val_loss
       14.4968 - val_mean_absolute_error: 2
      3939
2321 Epoch 1036/20000
2322 - 0s - loss: 9.5028 -
     mean_absolute_error: 2.2165 - val_loss
       13.7523 - val_mean_absolute_error:
      2891
2323 Epoch 1037/20000
2324 - 0s - loss: 9.4917 -
     mean_absolute_error: 2.2870 - val_loss
       13.9270 - val_mean_absolute_error: 2
      3338
2325 Epoch 1038/20000
2326 - Os - Loss: 8.5347 -
     mean_absolute_error: 2.2698 - val_loss
       14.0837 - val_mean_absolute_error:
      3903
2327 Epoch 1039/20000
      - 0s - loss: 10.4228 -
2328
     mean_absolute_error: 2.4355 - val_loss
```

```
14.1432 - val_mean_absolute_error: 2
2328
     4562
2329 Epoch 1040/20000
     - 0s - loss: 10.6658 -
2330
     mean_absolute_error: 2.4247 - val_loss
       13.8350 - val_mean_absolute_error: 2
     . 3052
2331
2332 Epoch 01040: saving model to ./model/
     model best.h5
2333 Epoch 1041/20000
2334 - 0s - loss: 11.1291 -
     mean_absolute_error: 2.4203 - val_loss
       14.1211 - val_mean_absolute_error: 2
      3935
2335 Epoch 1042/20000
2336 - 0s - loss: 12.6331 -
     mean_absolute_error: 2.4642 - val_loss
       14.1015 - val_mean_absolute_error: 2
     3315
2337 Epoch 1043/20000
2338 - Os - Loss: 10.2601 -
     mean_absolute_error: 2.3981 - val_loss
     14.2265 - val_mean_absolute_error: 2
```

```
File - boston01
2338 . 3267
2339 Epoch 1044/20000
2340 - 0s - loss: 8.8072
     mean_absolute_error: 2.2194 - val_loss
       14.0523 - val_mean_absolute_error: 2
      3361
2341 Epoch 1045/20000
2342 - 0s - loss: 10.0142 -
     mean_absolute_error: 2.3894 - val_loss
       14.6477 - val_mean_absolute_error:
      3689
2343 Epoch 1046/20000
2344 - 0s - loss: 10.0211 -
     mean_absolute_error: 2.3194 - val_loss
       14.3785 - val_mean_absolute_error:
      3272
2345 Epoch 1047/20000
2346 - 0s - loss: 9.5961 -
     mean_absolute_error: 2.3248 - val_loss
       14.8042 - val_mean_absolute_error:
      3505
2347 Epoch 1048/20000
      - 0s - loss: 9.2804 -
2348
     mean_absolute_error: 2.2527 - val_l<u>oss</u>
```

```
14.6660 - val_mean_absolute_error: 2
2348
     3703
2349 Epoch 1049/20000
     - 0s - loss: 9.3526 -
2350
     mean_absolute_error: 2.2440 - val_loss
       14.1297 - val_mean_absolute_error: 2
      3094
2351 Epoch 1050/20000
2352
     - 0s - loss: 10.8491 -
     mean_absolute_error: 2.3487 - val_loss
       14.0402 - val_mean_absolute_error: 2
     . 3196
2353
    Epoch 01050: saving model to ./model/
2354
     model_best.h5
2355 Epoch 1051/20000
     - 0s - loss: 9.4079 -
2356
     mean_absolute_error: 2.2436 - val_loss
      14.3330 - val_mean_absolute_error: 2
     2947
2357 Epoch 1052/20000
    - 0s - Loss: 9.9538
2358
     mean_absolute_error: 2.2636 - val_loss
     14.1395 - val_mean_absolute_error: 2
```

```
File - boston01
2358 . 3096
2359 Epoch 1053/20000
2360 - 0s - loss: 10.7083 -
     mean_absolute_error: 2.3145 - val_loss
       14.7966 - val_mean_absolute_error: 2
      3705
2361 Epoch 1054/20000
2362 - 0s - loss: 10.2474 -
     mean_absolute_error: 2.3323 - val_loss
       15.5172 - val_mean_absolute_error:
      5341
2363 Epoch 1055/20000
2364 - 0s - loss: 9.5111 -
     mean_absolute_error: 2.2658 - val_loss
       14.7961 - val_mean_absolute_error: 2
      3538
2365 Epoch 1056/20000
2366 - 0s - loss: 12.0755 -
     mean_absolute_error: 2.5219 - val_loss
       14.5709 - val_mean_absolute_error:
      3399
2367 Epoch 1057/20000
      - 0s - loss: 6.9125 -
2368
     mean_absolute_error: 1.9743 - val_loss
```

```
14.3406 - val_mean_absolute_error: 2
2368
     3142
2369 Epoch 1058/20000
     - 0s - loss: 9.6894 -
2370 l
     mean_absolute_error: 2.2935 - val_loss
       14.2299 - val_mean_absolute_error: 2
      3320
2371 Epoch 1059/20000
     - 0s - loss: 10.8278 -
2372
     mean_absolute_error: 2.3176 - val_loss
       14.4064 - val_mean_absolute_error: 2
      3220
2373 Epoch 1060/20000
     - 0s - loss: 13.4116 -
2374
     mean_absolute_error: 2.4392 - val_loss
       14.2145 - val_mean_absolute_error: 2
     . 3089
2375
2376 Epoch 01060: saving model to ./model/
     model_best.h5
2377 Epoch 1061/20000
2378 - 0s - loss: 10.0573 -
     mean_absolute_error: 2.3269 - val_loss
     14.3589 - val_mean_absolute_error: 2
```

```
File - boston01
2378 . 3887
2379 Epoch 1062/20000
      - 0s - loss: 9.6183
2380 l
     mean_absolute_error: 2.1909 - val_loss
       14.5235 - val_mean_absolute_error: 2
      3626
2381 Epoch 1063/20000
2382 - 0s - loss: 10.6279 -
     mean_absolute_error: 2.3739 - val_loss
       14.3942 - val_mean_absolute_error:
      3276
2383 Epoch 1064/20000
      - 0s - loss: 10.3671 -
2384
     mean_absolute_error: 2.3605 - val_loss
       14.2212 - val_mean_absolute_error:
      3055
2385 Epoch 1065/20000
2386 - 0s - loss: 11.0897 -
     mean_absolute_error: 2.4291 - val_loss
       14.9108 - val_mean_absolute_error:
      3400
2387 Epoch 1066/20000
      - 0s - loss: 10.0128 -
2388
     mean_absolute_error: 2.3333 - val_l<u>oss</u>
```

mean_absolute_error: 2.4749 - val_loss 14.0074 - val_mean_absolute_error: 2 2811

2397

Epoch 01070: saving model to ./model/ 2398

```
File - boston01
2398 model_best.h5
2399 Epoch 1071/20000
2400 - 0s - loss: 11.3543 -
     mean_absolute_error: 2.4850 - val_loss
       14.0017 - val_mean_absolute_error: 2
      3184
2401 Epoch 1072/20000
2402 - 0s - loss: 11.1978 -
     mean_absolute_error: 2.4212 - val_loss
       15.0036 - val_mean_absolute_error:
      3837
2403 Epoch 1073/20000
2404 - 0s - loss: 11.1261 -
     mean_absolute_error: 2.4380 - val_loss
       14.3449 - val_mean_absolute_error: 2
      3539
2405 Epoch 1074/20000
2406 - 0s - loss: 11.1015 -
     mean_absolute_error: 2.4562 - val_loss
       15.3968 - val_mean_absolute_error:
      4146
2407 Epoch 1075/20000
2408 - 0s - loss: 10.5250 -
     mean_absolute_error: 2.3624 - val_loss
```

```
14.6205 - val_mean_absolute_error: 2
2408
     3092
2409 Epoch 1076/20000
     - 0s - loss: 8.6226 -
2410
     mean_absolute_error: 2.1956 - val_loss
       13.6152 - val_mean_absolute_error: 2
     2421
2411 Epoch 1077/20000
     - 0s - loss: 11.6325 -
2412
     mean_absolute_error: 2.3819 - val_loss
       13.6017 - val_mean_absolute_error: 2
      2513
2413 Epoch 1078/20000
     - 0s - loss: 13.0206 -
2414
     mean_absolute_error: 2.4519 - val_loss
       14.0106 - val_mean_absolute_error: 2
     2783
2415 Epoch 1079/20000
     - 0s - loss: 9.3767 -
2416
     mean_absolute_error: 2.2053 - val_loss
       13.8189 - val_mean_absolute_error: 2
      2562
2417 Epoch 1080/20000
2418 - 0s - Loss: 12.9431
```

```
2418 mean_absolute_error: 2.4405 - val_loss
       14.4149 - val_mean_absolute_error: 2
     3046
2419
2420 Epoch 01080: saving model to ./model/
     model_best.h5
2421 Epoch 1081/20000
2422 - 0s - loss: 9.3414 -
     mean_absolute_error: 2.2273 - val_loss
     : 14.0570 - val_mean_absolute_error: 2
     . 3175
2423 Epoch 1082/20000
2424 - 0s - loss: 9.6563 -
     mean_absolute_error: 2.3028 - val_loss
       13.8297 - val_mean_absolute_error: 2
     2702
2425 Epoch 1083/20000
2426 - 0s - loss: 11.4300 -
     mean_absolute_error: 2.4892 - val_loss
       14.2561 - val_mean_absolute_error:
     2955
2427 Epoch 1084/20000
2428 - 0s - loss: 12.6319 -
     mean_absolute_error: 2.4950 - val_loss
```

```
13.8865 - val_mean_absolute_error: 2
2428
     2804
2429 Epoch 1085/20000
     - Os - Loss: 11.3438 -
2430
     mean_absolute_error: 2.3999 - val_loss
       14.3722 - val_mean_absolute_error: 2
     3505
2431 Epoch 1086/20000
2432
     - 0s - loss: 9.5309 -
     mean_absolute_error: 2.2114 - val_loss
       14.3505 - val_mean_absolute_error: 2
      3054
2433 Epoch 1087/20000
     - 0s - loss: 9.9830 -
2434
     mean_absolute_error: 2.3584 - val_loss
       14.3558 - val_mean_absolute_error: 2
     3457
2435 Epoch 1088/20000
     - Os - Loss: 9.9418 -
2436
     mean_absolute_error: 2.3577 - val_loss
       14.6957 - val_mean_absolute_error: 2
      3411
2437 Epoch 1089/20000
     - 0s - loss: 9.9722
2438 l
```

```
2438 mean_absolute_error: 2.2726 - val_loss
       14.3380 - val_mean_absolute_error: 2
      3340
2439 Epoch 1090/20000
2440 - 0s - loss: 10.4810 -
     mean_absolute_error: 2.2701 - val_loss
       14.2656 - val_mean_absolute_error: 2
     3288
2441
2442 Epoch 01090: saving model to ./model/
     model_best.h5
2443 Epoch 1091/20000
2444 - 0s - loss: 10.6144 -
     mean_absolute_error: 2.3864 - val_loss
       14.1139 - val_mean_absolute_error: 2
      3257
2445 Epoch 1092/20000
2446 - 0s - loss: 10.6316 -
     mean_absolute_error: 2.4218 - val_loss
       14.4616 - val_mean_absolute_error:
     3416
2447 Epoch 1093/20000
     - 0s - loss: 11.0892 -
2448
     mean_absolute_error: 2.4832 - val_loss
```

```
14.3546 - val_mean_absolute_error: 2
2448
     3012
2449 Epoch 1094/20000
     - 0s - loss: 9.0431 -
2450
     mean_absolute_error: 2.2942 - val_loss
       14.1086 - val_mean_absolute_error: 2
      3064
2451 Epoch 1095/20000
2452
     - 0s - loss: 11.8822 -
     mean_absolute_error: 2.4004 - val_loss
       14.3723 - val_mean_absolute_error: 2
      3373
2453 Epoch 1096/20000
     - 0s - loss: 13.4540 -
2454
     mean_absolute_error: 2.4300 - val_loss
       14.6141 - val_mean_absolute_error: 2
     . 3167
2455 Epoch 1097/20000
     - 0s - Loss: 8.9528
2456
     mean_absolute_error: 2.2022 - val_loss
       13.9726 - val_mean_absolute_error: 2
      2846
2457 Epoch 1098/20000
     - 0s - loss: 10.3191
2458 l
```

```
2458 mean_absolute_error: 2.3408 - val_loss
       15.5258 - val_mean_absolute_error: 2
      4875
2459 Epoch 1099/20000
2460 - 0s - Loss: 9.8993
     mean_absolute_error: 2.3057 - val_loss
       14.2043 - val_mean_absolute_error: 2
     2738
2461 Epoch 1100/20000
2462 - 0s - loss: 10.5294 -
     mean_absolute_error: 2.3392 - val_loss
       14.0051 - val_mean_absolute_error: 2
     2944
2463
2464 Epoch 01100: saving model to ./model/
     model_best.h5
2465 Epoch 1101/20000
2466 - 0s - loss: 8.5381
     mean_absolute_error: 2.1902 - val_loss
       14.1074 - val_mean_absolute_error:
     2998
2467 Epoch 1102/20000
     - 0s - loss: 9.7370 -
2468
     mean_absolute_error: 2.2714 - val_loss
```

```
13.7604 - val_mean_absolute_error: 2
2468
      3054
2469 Epoch 1103/20000
     - 0s - loss: 11.0030 -
2470 l
     mean_absolute_error: 2.3645 - val_loss
       13.9680 - val_mean_absolute_error: 2
      3165
2471 Epoch 1104/20000
     - 0s - loss: 8.8817 -
2472
     mean_absolute_error: 2.1182 - val_l<u>oss</u>
       13.8721 - val_mean_absolute_error: 2
      3317
2473 Epoch 1105/20000
     - 0s - loss: 8.3831 -
2474
     mean_absolute_error: 2.2274 - val_loss
       13.6651 - val_mean_absolute_error: 2
     2986
2475 Epoch 1106/20000
     - 0s - loss: 11.4007 -
2476
     mean_absolute_error: 2.4323 - val_loss
       14.6240 - val_mean_absolute_error: 2
      3252
2477 Epoch 1107/20000
     - 0s - loss: 10.0123 -
2478 l
```

```
2478 mean_absolute_error: 2.3606 - val_loss
       13.7200 - val_mean_absolute_error: 2
      2786
2479 Epoch 1108/20000
2480 - 0s - loss: 11.1777 -
     mean_absolute_error: 2.3131 - val_loss
       13.7441 - val_mean_absolute_error: 2
     2949
2481 Epoch 1109/20000
2482 - 0s - loss: 8.8925
     mean_absolute_error: 2.2296 - val_loss
       13.8118 - val_mean_absolute_error: 2
     2668
2483 Epoch 1110/20000
2484 - 0s - loss: 9.4543
     mean_absolute_error: 2.2920 - val_loss
       14.6322 - val_mean_absolute_error:
     4297
2485
2486 Epoch 01110: saving model to ./model/
     model_best.h5
2487 Epoch 1111/20000
     - 0s - loss: 9.7071 -
2488
     mean_absolute_error: 2.2803 - val_loss
```

```
13.6159 - val_mean_absolute_error: 2
2488
     2304
2489 Epoch 1112/20000
     - 0s - loss: 9.3064 -
2490
     mean_absolute_error: 2.2496 - val_loss
       13.6792 - val_mean_absolute_error: 2
     2470
2491 Epoch 1113/20000
     - 0s - loss: 9.0485 -
2492
     mean_absolute_error: 2.2456 - val loss
       13.7554 - val_mean_absolute_error: 2
      3116
2493 Epoch 1114/20000
2494
     - 0s - loss: 11.9204 -
     mean_absolute_error: 2.4551 - val_loss
       13.6716 - val_mean_absolute_error: 2
     2453
2495 Epoch 1115/20000
     - 0s - loss: 9.6133
2496
     mean_absolute_error: 2.2227 - val_loss
       13.8733 - val_mean_absolute_error: 2
      2513
2497 Epoch 1116/20000
     - 0s - loss: 9.7597
2498
```

```
File - boston01
```

```
2498 mean_absolute_error: 2.3200 - val_loss
       13.7300 - val_mean_absolute_error: 2
      2468
2499 Epoch 1117/20000
2500 - 0s - loss: 12.1739 -
     mean_absolute_error: 2.5304 - val_loss
       13.3437 - val_mean_absolute_error: 2
     2261
2501 Epoch 1118/20000
2502 - 0s - loss: 8.8572 -
     mean_absolute_error: 2.2242 - val_loss
       14.2689 - val_mean_absolute_error: 2
     3114
2503 Epoch 1119/20000
2504 - 0s - loss: 10.6336 -
     mean_absolute_error: 2.3516 - val_loss
       13.7099 - val_mean_absolute_error: 2
     2538
2505 Epoch 1120/20000
     - 0s - loss: 10.0168 -
2506
     mean_absolute_error: 2.3313 - val_loss
      12.9801 - val_mean_absolute_error:
     . 1895
```

2507

```
2508 Epoch 01120: saving model to ./model/
     model best.h5
2509 Epoch 1121/20000
2510 - 0s - loss: 9.8394 -
     mean_absolute_error: 2.2835 - val_loss
       13.2005 - val_mean_absolute_error: 2
     2394
2511 Epoch 1122/20000
2512
     - 0s - loss: 10.2895 -
     mean_absolute_error: 2.3627 - val_loss
       13.9369 - val_mean_absolute_error: 2
      2692
2513 Epoch 1123/20000
     - 0s - loss: 9.1154 -
2514
     mean_absolute_error: 2.2223 - val_loss
       13.4369 - val_mean_absolute_error: 2
     2719
2515 Epoch 1124/20000
2516 - 0s - loss: 9.3120 -
     mean_absolute_error: 2.3339 - val_loss
       13.4179 - val_mean_absolute_error: 2
      2219
2517 Epoch 1125/20000
2518 - 0s - loss: 10.7137 -
```

```
2518 mean_absolute_error: 2.3771 - val_loss
       13.2586 - val_mean_absolute_error: 2
      2437
2519 Epoch 1126/20000
2520 - 0s - loss: 10.2576 -
     mean_absolute_error: 2.2888 - val_loss
       16.4349 - val_mean_absolute_error: 2
     5492
2521 Epoch 1127/20000
2522 - 0s - loss: 11.1588 -
     mean_absolute_error: 2.3073 - val_loss
       13.9626 - val_mean_absolute_error: 2
     3106
2523 Epoch 1128/20000
2524 - 0s - loss: 10.8616 -
     mean_absolute_error: 2.3524 - val_loss
       14.0752 - val_mean_absolute_error: 2
     2803
2525 Epoch 1129/20000
     - Os - Loss: 10.4949 -
2526 l
     mean_absolute_error: 2.3573 - val_loss
       13.9944 - val_mean_absolute_error:
      2906
2527 Epoch 1130/20000
```

mean_absolute_error: 2.1657 - val_loss : 14.1564 - val_mean_absolute_error: 2 .3103 2537 Epoch 1134/20000 2538 - 0s - loss: 8.2997 -

```
2538 mean_absolute_error: 2.1793 - val_loss
       15.0644 - val_mean_absolute_error: 2
      4130
2539 Epoch 1135/20000
2540 - 0s - Loss: 9.2873 -
     mean_absolute_error: 2.2418 - val_loss
       13.8152 - val_mean_absolute_error: 2
     3014
2541 Epoch 1136/20000
2542 - 0s - loss: 10.9881 -
     mean_absolute_error: 2.3971 - val_loss
       13.9938 - val_mean_absolute_error: 2
     3264
2543 Epoch 1137/20000
2544 - 0s - loss: 10.0175 -
     mean_absolute_error: 2.3635 - val_loss
       14.8306 - val_mean_absolute_error: 2
     . 3927
2545 Epoch 1138/20000
     - 0s - loss: 10.6461 -
2546
     mean_absolute_error: 2.3549 - val_loss
       13.8610 - val_mean_absolute_error:
      3703
2547 Epoch 1139/20000
```

2590

2557 Epoch 1143/20000

2558 <u>- 0s - 10ss: 8.6922</u>

```
2558 mean_absolute_error: 2.2687 - val_loss
       14.1910 - val_mean_absolute_error: 2
      2878
2559 Epoch 1144/20000
2560 - 0s - Loss: 8.1141 -
     mean_absolute_error: 2.1473 - val_loss
       13.7967 - val_mean_absolute_error: 2
     2780
2561 Epoch 1145/20000
2562 - 0s - loss: 9.2766 -
     mean_absolute_error: 2.2149 - val_loss
       14.9765 - val_mean_absolute_error: 2
     3761
2563 Epoch 1146/20000
2564 - 0s - loss: 8.3788
     mean_absolute_error: 2.1318 - val_loss
       14.2972 - val_mean_absolute_error: 2
     . 3370
2565 Epoch 1147/20000
     - 0s - loss: 11.1852 -
2566
     mean_absolute_error: 2.3532 - val_loss
       14.1262 - val_mean_absolute_error:
      3328
2567 Epoch 1148/20000
```

: 13.4858 - val_mean_absolute_error: 2
.2384

2577 Epoch 1152/20000

2578 - 0s - loss: 10.1601 -

```
2578 mean_absolute_error: 2.3355 - val_loss
       13.4052 - val_mean_absolute_error: 2
      2216
2579 Epoch 1153/20000
2580 - 0s - loss: 8.6178 -
     mean_absolute_error: 2.1446 - val_loss
       13.5228 - val_mean_absolute_error: 2
     2715
2581 Epoch 1154/20000
2582 - 0s - loss: 10.5786 -
     mean_absolute_error: 2.3791 - val_loss
       13.8516 - val_mean_absolute_error: 2
     2365
2583 Epoch 1155/20000
2584 - 0s - loss: 11.1956 -
     mean_absolute_error: 2.4535 - val_loss
       14.2052 - val_mean_absolute_error: 2
     . 2555
2585 Epoch 1156/20000
     - 0s - loss: 9.3317 -
2586
     mean_absolute_error: 2.1768 - val_loss
       14.2678 - val_mean_absolute_error:
      2972
2587 Epoch 1157/20000
```

2596 Epoch 01160: saving model to ./model/model_best.h5

2597 Epoch 1161/20000

2598 <u>- 0s - loss: 10.0270 - </u>

```
2598 mean_absolute_error: 2.2913 - val_loss
       14.1115 - val_mean_absolute_error: 2
      2616
2599 Epoch 1162/20000
2600 - 0s - loss: 9.4157 -
     mean_absolute_error: 2.2575 - val_loss
       13.8788 - val_mean_absolute_error: 2
     2421
2601 Epoch 1163/20000
2602 - 0s - loss: 10.1496 -
     mean_absolute_error: 2.4637 - val_loss
       13.6656 - val_mean_absolute_error: 2
     2926
2603 Epoch 1164/20000
2604 - 0s - loss: 8.8359 -
     mean_absolute_error: 2.1753 - val_loss
     14.3083 - val_mean_absolute_error: 2
     . 3567
2605 Epoch 1165/20000
     - 0s - loss: 10.9285 -
2606
     mean_absolute_error: 2.3680 - val_loss
       13.9817 - val_mean_absolute_error:
      3035
2607 Epoch 1166/20000
```

```
- 0s - loss: 7.6587 -
2608
     mean_absolute_error: 2.0330 - val_loss
       14.5936 - val_mean_absolute_error: 2
      3944
2609 Epoch 1167/20000
2610 - 0s - loss: 8.0577 -
     mean_absolute_error: 2.1838 - val_loss
       14.7535 - val_mean_absolute_error: 2
      3755
2611 Epoch 1168/20000
2612 - 0s - loss: 9.2744 -
     mean_absolute_error: 2.2131 - val_loss
       14.5500 - val_mean_absolute_error: 2
     3436
2613 Epoch 1169/20000
2614 - 0s - loss: 9.4734 -
     mean_absolute_error: 2.2643 - val_loss
       13.7960 - val_mean_absolute_error: 2
      2955
2615 Epoch 1170/20000
     - 0s - loss: 10.1701 -
2616
     mean_absolute_error: 2.3853 - val_loss
      14.1343 - val_mean_absolute_error: 2
     2926
```

```
2617
    Epoch 01170: saving model to ./model/
2618
     model_best.h5
2619 Epoch 1171/20000
2620 - 0s - loss: 9.3875 -
     mean_absolute_error: 2.2650 - val_loss
       14.7423 - val_mean_absolute_error: 2
     2999
2621 Epoch 1172/20000
2622 - 0s - loss: 9.7891
     mean_absolute_error: 2.2795 - val_loss
       14.3951 - val_mean_absolute_error: 2
     3340
2623 Epoch 1173/20000
2624 - 0s - loss: 8.7655
     mean_absolute_error: 2.2462 - val_loss
       13.9213 - val_mean_absolute_error:
      3384
2625 Epoch 1174/20000
    - 0s - loss: 10.1453 -
2626
     mean_absolute_error: 2.3897 - val_loss
       13.8149 - val_mean_absolute_error:
      3346
2627 Epoch 1175/20000
```

```
- 0s - loss: 9.7455 -
```

```
mean_absolute_error: 2.2544 - val_loss
: 13.6224 - val_mean_absolute_error: 2
.2949
```

- 2629 Epoch 1176/20000
- 2630 Os Loss: 8.8828 mean_absolute_error: 2.2411 val_loss

: 13.5066 - val_mean_absolute_error: 2

. 2812

- 2631 Epoch 1177/20000
- 2632 Os Loss: 9.6342 -

mean_absolute_error: 2.2693 - val_loss

: 13.4811 - val_mean_absolute_error: 2

2605

- 2633 Epoch 1178/20000
- 2634 Os Loss: 10.4249 -

mean_absolute_error: 2.2757 - val_loss

: 13.4251 - val_mean_absolute_error: 2

. 3355

- 2635 Epoch 1179/20000
- 2636 Os Loss: 9.1480 -

mean_absolute_error: 2.1725 - val_loss

: 13.5124 - val_mean_absolute_error: 2

. 2360

```
File - boston01
2637 Epoch 1180/20000
      - 0s - loss: 9.1493 -
2638
     mean_absolute_error: 2.2460 - val_loss
       13.4920 - val_mean_absolute_error: 2
      2241
2639
     Epoch 01180: saving model to ./model/
2640
     model_best.h5
2641 Epoch 1181/20000
2642 - 0s - loss: 8.1953
     mean_absolute_error: 2.2042 - val_loss
       15.0977 - val_mean_absolute_error: 2
      3789
2643 Epoch 1182/20000
2644 - 0s - loss: 9.8658
     mean_absolute_error: 2.2710 - val_loss
       13.9310 - val_mean_absolute_error:
      2821
2645 Epoch 1183/20000
      - 0s - loss: 8.8772 -
2646
     mean_absolute_error: 2.2740 - val_loss
       13.3431 - val_mean_absolute_error:
      2347
2647 Epoch 1184/20000
```

```
- Os - loss: 9.4971 -
2648
     mean_absolute_error: 2.3470 - val_loss
       14.1417 - val_mean_absolute_error: 2
      3230
2649 Epoch 1185/20000
2650 - 0s - loss: 9.8219 -
     mean_absolute_error: 2.3036 - val_loss
       13.5641 - val_mean_absolute_error: 2
      2924
2651 Epoch 1186/20000
2652 - 0s - loss: 10.2486 -
     mean_absolute_error: 2.2916 - val_loss
       13.9079 - val_mean_absolute_error: 2
      3309
2653 Epoch 1187/20000
     - 0s - loss: 8.6098 -
2654
     mean_absolute_error: 2.1544 - val_loss
       14.2793 - val_mean_absolute_error: 2
      3273
2655 Epoch 1188/20000
     - 0s - loss: 9.1041 -
2656
     mean_absolute_error: 2.2571 - val_loss
       14.7737 - val_mean_absolute_error: 2
     3590
```

```
File - boston01
2657 Epoch 1189/20000
      - 0s - loss: 9.1429 -
2658
     mean_absolute_error: 2.2604 - val_loss
       14.1962 - val_mean_absolute_error: 2
      3374
2659 Epoch 1190/20000
2660 - 0s - loss: 8.6538 -
     mean_absolute_error: 2.1572 - val_loss
       14.1717 - val_mean_absolute_error: 2
      . 3308
2661
2662 Epoch 01190: saving model to ./model/
     model_best.h5
2663 Epoch 1191/20000
2664 - 0s - loss: 10.1176 -
     mean_absolute_error: 2.3307 - val_loss
       14.5313 - val_mean_absolute_error: 2
      3812
2665 Epoch 1192/20000
2666 - 0s - loss: 8.6793 -
     mean_absolute_error: 2.1964 - val_loss
       13.9427 - val_mean_absolute_error:
      3250
2667 Epoch 1193/20000
```

```
- 0s - loss: 9.7887 -
```

```
mean_absolute_error: 2.2698 - val_loss
: 15.0629 - val_mean_absolute_error: 2
.4429
```

2669 Epoch 1194/20000

2670 - 0s - loss: 9.3388 -

mean_absolute_error: 2.1952 - val_loss : 14.7972 - val_mean_absolute_error: 2 .3774

2671 Epoch 1195/20000

2672 - Os - Loss: 8.1194 -

mean_absolute_error: 2.1195 - val_loss : 14.9330 - val_mean_absolute_error: 2 .4296

2673 Epoch 1196/20000

2674 - 0s - loss: 9.2505 -

mean_absolute_error: 2.3562 - val_loss : 13.9129 - val_mean_absolute_error: 2 .3115

2675 Epoch 1197/20000

2676 - Os - Loss: 9.3360 -

mean_absolute_error: 2.3562 - val_loss : 13.8636 - val_mean_absolute_error: 2 .2685

```
File - boston01
2677 Epoch 1198/20000
      - 0s - loss: 11.7325 -
2678
     mean_absolute_error: 2.3034 - val_loss
       14.0331 - val_mean_absolute_error: 2
      2885
2679 Epoch 1199/20000
2680 - 0s - loss: 11.4067 -
     mean_absolute_error: 2.4591 - val_loss
       14.2332 - val_mean_absolute_error: 2
      3171
2681 Epoch 1200/20000
2682 - 0s - loss: 8.6744 -
     mean_absolute_error: 2.1947 - val_loss
       14.0343 - val_mean_absolute_error: 2
      2834
2683
2684 Epoch 01200: saving model to ./model/
     model_best.h5
2685 Epoch 1201/20000
     - 0s - loss: 10.3682 -
2686
     mean_absolute_error: 2.2314 - val_loss
       13.8201 - val_mean_absolute_error:
      2707
2687 Epoch 1202/20000
```

2695 Epoch 1206/20000

2696

- 0s - loss: 9.8662 mean_absolute_error: 2.3102 - val_loss 13.5479 - val_mean_absolute_error: 2 3082

```
File - boston01
2697 Epoch 1207/20000
      - 0s - loss: 10.1918 -
2698
     mean_absolute_error: 2.3717 - val_loss
       13.7834 - val_mean_absolute_error: 2
      3220
2699 Epoch 1208/20000
2700 - 0s - loss: 9.5781 -
     mean_absolute_error: 2.2652 - val_loss
       13.4818 - val_mean_absolute_error: 2
      2714
2701 Epoch 1209/20000
2702 - 0s - loss: 12.5981 -
     mean_absolute_error: 2.4920 - val_loss
       14.4313 - val_mean_absolute_error: 2
      2752
2703 Epoch 1210/20000
2704 - 0s - loss: 9.9633 -
     mean_absolute_error: 2.2669 - val_loss
       13.9692 - val_mean_absolute_error: 2
      2588
2705
2706 Epoch 01210: saving model to ./model/
     model_best.h5
2707 Epoch 1211/20000
```

```
- 0s - loss: 10.6881 -
2708
     mean_absolute_error: 2.3014 - val_loss
       13.3186 - val_mean_absolute_error: 2
      2241
2709 Epoch 1212/20000
2710 - 0s - loss: 9.7357 -
     mean_absolute_error: 2.3467 - val_loss
       13.6100 - val_mean_absolute_error: 2
     2738
2711 Epoch 1213/20000
2712 - 0s - loss: 9.5181 -
     mean_absolute_error: 2.2520 - val_loss
       13.0916 - val_mean_absolute_error: 2
     2403
2713 Epoch 1214/20000
     - 0s - loss: 9.4368 -
2714 I
     mean_absolute_error: 2.1296 - val_loss
       13.1481 - val_mean_absolute_error: 2
      2610
2715 Epoch 1215/20000
     - 0s - loss: 10.5538 -
2716 l
     mean_absolute_error: 2.4110 - val_loss
     : 13.4418 - val_mean_absolute_error: 2
     2313
```

13.9166 - val_mean_absolute_error: 2

```
File - boston01
2726 . 2925
2727
2728 Epoch 01220: saving model to ./model/
     model_best.h5
2729 Epoch 1221/20000
2730 - 0s - loss: 8.0196 -
     mean_absolute_error: 2.1356 - val_loss
       13.3618 - val_mean_absolute_error: 2
      2564
2731 Epoch 1222/20000
2732 - 0s - loss: 10.1795 -
     mean_absolute_error: 2.3861 - val_loss
       14.1444 - val_mean_absolute_error: 2
      3257
2733 Epoch 1223/20000
      - 0s - loss: 11.0984 -
2734
     mean_absolute_error: 2.4161 - val_loss
       14.6469 - val_mean_absolute_error: 2
      3443
2735 Epoch 1224/20000
      - 0s - loss: 12.6522 -
2736
     mean_absolute_error: 2.3696 - val_loss
      13.9340 - val_mean_absolute_error: 2
      2681
```

```
File - boston01
2746 . 4240
2747 Epoch 1230/20000
2748 - 0s - loss: 10.1672 -
     mean_absolute_error: 2.3013 - val_loss
       13.5130 - val_mean_absolute_error: 2
      2745
2749
2750 Epoch 01230: saving model to ./model/
     model_best.h5
2751 Epoch 1231/20000
2752 - 0s - loss: 9.7350 -
     mean_absolute_error: 2.2555 - val_loss
       13.4668 - val_mean_absolute_error: 2
      2837
2753 Epoch 1232/20000
      - 0s - loss: 9.3404 -
2754
     mean_absolute_error: 2.2082 - val_loss
       13. 1289 - val_mean_absolute_error: 2
      2329
2755 Epoch 1233/20000
      - 0s - loss: 9.0850 -
2756
     mean_absolute_error: 2.2630 - val_loss
      13.2957 - val_mean_absolute_error: 2
      2574
```

```
File - boston01
2757 Epoch 1234/20000
      - 0s - loss: 9.0843 -
2758
     mean_absolute_error: 2.2650 - val_loss
       13.3341 - val_mean_absolute_error: 2
      2605
2759 Epoch 1235/20000
2760 - 0s - loss: 9.7762 -
     mean_absolute_error: 2.2861 - val_loss
       12.9751 - val_mean_absolute_error: 2
      . 1910
2761 Epoch 1236/20000
2762 - 0s - loss: 9.7274 -
     mean_absolute_error: 2.1915 - val_loss
       13.0265 - val_mean_absolute_error: 2
      1891
2763 Epoch 1237/20000
2764 - 0s - loss: 8.7342 -
     mean_absolute_error: 2.2158 - val_loss
       12.7506 - val_mean_absolute_error: 2
      1733
2765 Epoch 1238/20000
2766 - 0s - loss: 10.0209 -
     mean_absolute_error: 2.3337 - val_loss
      13.8172 - val_mean_absolute_error: 2
```

```
File - boston01
2766 . 2870
2767 Epoch 1239/20000
2768 - 0s - loss: 11.3689 -
     mean_absolute_error: 2.4038 - val_loss
       12.9933 - val_mean_absolute_error: 2
      2307
2769 Epoch 1240/20000
2770 - 0s - loss: 9.1909 -
     mean_absolute_error: 2.2504 - val_loss
     : 14.0389 - val_mean_absolute_error:
      . 2601
2771
2772 Epoch 01240: saving model to ./model/
     model_best.h5
2773 Epoch 1241/20000
2774 - 0s - loss: 11.0631 -
     mean_absolute_error: 2.3257 - val_loss
       13.8524 - val_mean_absolute_error: 2
      2786
2775 Epoch 1242/20000
      - Os - loss: 7.4399 -
2776
     mean_absolute_error: 2.0850 - val_loss
     : 14.1698 - val_mean_absolute_error: 2
      3204
```

```
File - boston01
2786 . 2536
2787 Epoch 1248/20000
      - 0s - loss: 10.7305 -
2788
     mean_absolute_error: 2.3561 - val_loss
       13.2375 - val_mean_absolute_error: 2
      2366
2789 Epoch 1249/20000
2790 - 0s - loss: 9.2090 ·
     mean_absolute_error: 2.1066 - val_loss
       13.1948 - val_mean_absolute_error:
      2254
2791 Epoch 1250/20000
2792 - 0s - loss: 10.0023 -
     mean_absolute_error: 2.3195 - val_loss
       13.7790 - val_mean_absolute_error:
      3982
2793
2794 Epoch 01250: saving model to ./model/
     model_best.h5
2795 Epoch 1251/20000
      - 0s - loss: 8.0945 -
2796
     mean_absolute_error: 2.0621 - val_loss
       13.2144 - val_mean_absolute_error: 2
```

```
File - boston01
2797 Epoch 1252/20000
      - 0s - Loss: 8.1787 -
2798
     mean_absolute_error: 2.1829 - val_loss
       13.0328 - val_mean_absolute_error: 2
      2275
2799 Epoch 1253/20000
2800 - 0s - loss: 8.5975 -
     mean_absolute_error: 2.1941 - val_loss
       12.9172 - val_mean_absolute_error: 2
      . 1977
2801 Epoch 1254/20000
2802 - 0s - loss: 10.7048 -
     mean_absolute_error: 2.3067 - val_loss
       13.0748 - val_mean_absolute_error: 2
      2246
2803 Epoch 1255/20000
      - 0s - loss: 11.5374 -
2804
     mean_absolute_error: 2.4371 - val_loss
       14.2174 - val_mean_absolute_error: 2
      3197
2805 Epoch 1256/20000
     - 0s - loss: 9.2493
2806
     mean_absolute_error: 2.3022 - val_loss
       13.9895 - val_mean_absolute_error: 2
```

```
File - boston01
2806 . 2408
2807 Epoch 1257/20000
      - 0s - loss: 11.7935 -
2808
     mean_absolute_error: 2.3533 - val_loss
       12.8364 - val_mean_absolute_error: 2
      2037
2809 Epoch 1258/20000
2810 - Os - Loss: 10.3588 -
     mean_absolute_error: 2.3575 - val_loss
       13.1869 - val_mean_absolute_error:
      2326
2811 Epoch 1259/20000
2812 - Os - Loss: 8.5277 -
     mean_absolute_error: 2.1115 - val_loss
       13.8955 - val_mean_absolute_error:
      2694
2813 Epoch 1260/20000
      - 0s - loss: 8.3896 -
2814 l
     mean_absolute_error: 2.1704 - val_loss
       14.5525 - val_mean_absolute_error:
      3209
2815
     Epoch 01260: saving model to ./model/
2816
     model_best.h5
```

```
File - boston01
2826 . 1818
2827 Epoch 1266/20000
      - 0s - loss: 7.4482
2828
     mean_absolute_error: 2.1663 - val_loss
       14.0818 - val_mean_absolute_error: 2
      3350
2829 Epoch 1267/20000
2830 - 0s - loss: 10.6217 -
     mean_absolute_error: 2.3628 - val_loss
       12.9083 - val_mean_absolute_error:
      1983
2831 Epoch 1268/20000
2832 - 0s - loss: 9.5538 -
     mean_absolute_error: 2.3081 - val_loss
       13.5295 - val_mean_absolute_error:
      2068
2833 Epoch 1269/20000
      - 0s - loss: 9.0048 -
2834
     mean_absolute_error: 2.1370 - val_loss
       13.0856 - val_mean_absolute_error:
      2556
2835 Epoch 1270/20000
     - 0s - loss: 8.9486 -
2836
     mean_absolute_error: 2.1482 - val_l<u>oss</u>
```

mean_absolute_error: 2.2202 - val_loss 13.3676 - val_mean_absolute_error: 2 1868

2845 Epoch 1274/20000

2846 - 0s - Loss: 8.4893 mean_absolute_error: 2.1598 - val_loss 13.1714 - val_mean_absolute_error: 2

```
File - boston01
2846 . 1886
2847 Epoch 1275/20000
      - 0s - loss: 9.1124
2848
     mean_absolute_error: 2.1191 - val_loss
       13.0391 - val_mean_absolute_error: 2
      2759
2849 Epoch 1276/20000
2850 - 0s - loss: 8.3967
     mean_absolute_error: 2.1089 - val_loss
       13.1440 - val_mean_absolute_error:
      2416
2851 Epoch 1277/20000
2852 - 0s - loss: 11.0611 -
     mean_absolute_error: 2.4102 - val_loss
       15.4633 - val_mean_absolute_error:
      4511
2853 Epoch 1278/20000
      - 0s - loss: 8.0630 -
2854
     mean_absolute_error: 2.0766 - val_loss
       14.0068 - val_mean_absolute_error:
      3007
2855 Epoch 1279/20000
     - 0s - loss: 10.6473 -
2856
     mean_absolute_error: 2.3377 - val_l<u>oss</u>
```

```
14.6441 - val_mean_absolute_error: 2
2856
     3461
2857 Epoch 1280/20000
     - 0s - loss: 8.5483 -
2858
     mean_absolute_error: 2.2545 - val_loss
      13.3631 - val_mean_absolute_error: 2
     2048
2859
2860 Epoch 01280: saving model to ./model/
     model best.h5
2861 Epoch 1281/20000
     - 0s - loss: 8.8924
2862
     mean_absolute_error: 2.1453 - val_loss
       13.3241 - val_mean_absolute_error: 2
     2836
2863 Epoch 1282/20000
     - 0s - loss: 10.4549 -
2864
     mean_absolute_error: 2.2586 - val_loss
       13.6904 - val_mean_absolute_error: 2
     3970
2865 Epoch 1283/20000
    - 0s - Loss: 9.0322
2866
     mean_absolute_error: 2.1546 - val_loss
      13.1909 - val_mean_absolute_error: 2
```

```
File - boston01
2866 . 2218
2867 Epoch 1284/20000
      - 0s - loss: 8.1756
2868
     mean_absolute_error: 2.1149 - val_loss
       13.3472 - val_mean_absolute_error: 2
      2206
2869 Epoch 1285/20000
2870 - 0s - Loss: 8.0955
     mean_absolute_error: 2.2340 - val_loss
       13.1302 - val_mean_absolute_error:
      2234
2871 Epoch 1286/20000
2872 - 0s - loss: 8.6067 -
     mean_absolute_error: 2.1636 - val_loss
       13.2692 - val_mean_absolute_error:
      3355
2873 Epoch 1287/20000
      - 0s - loss: 7.9313 -
2874 l
     mean_absolute_error: 2.0276 - val_loss
       13.3607 - val_mean_absolute_error:
      3387
2875 Epoch 1288/20000
     - 0s - loss: 9.5196 -
2876
     mean_absolute_error: 2.2835 - val_loss
```

```
13.7740 - val_mean_absolute_error: 2
2876
     3365
2877 Epoch 1289/20000
     - 0s - loss: 12.1879 -
2878
     mean_absolute_error: 2.4379 - val_loss
       13.4794 - val_mean_absolute_error: 2
      2714
2879 Epoch 1290/20000
     - 0s - loss: 11.0136 -
2880
     mean_absolute_error: 2.2716 - val_loss
       13.2406 - val_mean_absolute_error: 2
     2742
2881
    Epoch 01290: saving model to ./model/
2882
     model_best.h5
2883 Epoch 1291/20000
     - 0s - loss: 7.7816 -
2884
     mean_absolute_error: 2.1360 - val_loss
       13.5476 - val_mean_absolute_error: 2
     2243
2885 Epoch 1292/20000
    - 0s - loss: 11.2601 -
2886
     mean_absolute_error: 2.4358 - val_loss
      13.7815 - val_mean_absolute_error: 2
```

```
File - boston01
2886 . 2194
2887 Epoch 1293/20000
      - 0s - loss: 11.1321 -
2888
     mean_absolute_error: 2.3698 - val_loss
       14.3604 - val_mean_absolute_error: 2
      3497
2889 Epoch 1294/20000
2890 - 0s - Loss: 8.7172 ·
     mean_absolute_error: 2.1513 - val_loss
       13.2424 - val_mean_absolute_error:
      2574
2891 Epoch 1295/20000
2892 l
      - 0s - loss: 7.8989 -
     mean_absolute_error: 2.0846 - val_loss
       13.1000 - val_mean_absolute_error:
      2293
2893 Epoch 1296/20000
2894 - Os - Loss: 11.7336 -
     mean_absolute_error: 2.4356 - val_loss
       13. 2913 - val_mean_absolute_error:
      2437
2895 Epoch 1297/20000
      - 0s - loss: 8.4551
2896
     mean_absolute_error: 2.1416 - val_loss
```

```
13.7213 - val_mean_absolute_error: 2
2896
     3422
2897 Epoch 1298/20000
     - 0s - loss: 10.0201 -
2898
     mean_absolute_error: 2.1987 - val_loss
       13.1112 - val_mean_absolute_error: 2
     2302
2899 Epoch 1299/20000
     - 0s - loss: 10.3365 -
2900
     mean_absolute_error: 2.3319 - val_loss
       13.1665 - val_mean_absolute_error: 2
      2064
2901 Epoch 1300/20000
     - 0s - loss: 9.1730 -
2902
     mean_absolute_error: 2.2750 - val_loss
       13.2445 - val_mean_absolute_error: 2
     2746
2903
2904 Epoch 01300: saving model to ./model/
     model_best.h5
2905 Epoch 1301/20000
    - 0s - loss: 9.5678
2906
     mean_absolute_error: 2.2122 - val_loss
      13.1399 - val_mean_absolute_error: 2
```

```
File - boston01
2906 . 2181
2907 Epoch 1302/20000
      - 0s - loss: 10.3591 -
2908
     mean_absolute_error: 2.3758 - val_loss
       13.0855 - val_mean_absolute_error: 2
      2431
2909 Epoch 1303/20000
2910 - 0s - loss: 9.3503
     mean_absolute_error: 2.2355 - val_loss
       12.9864 - val_mean_absolute_error:
      2170
2911 Epoch 1304/20000
2912 - 0s - loss: 9.8743 -
     mean_absolute_error: 2.2110 - val_loss
       13.0236 - val_mean_absolute_error: 2
      2330
2913 Epoch 1305/20000
2914 - 0s - loss: 7.5947 -
     mean_absolute_error: 2.0646 - val_loss
       13.4148 - val_mean_absolute_error:
      2524
2915 Epoch 1306/20000
2916 - 0s - loss: 10.1770 -
     mean_absolute_error: 2.3093 - val_loss
```

```
13.3240 - val_mean_absolute_error: 2
2916
     2048
2917 Epoch 1307/20000
     - 0s - loss: 8.3656 -
2918
     mean_absolute_error: 2.1128 - val_loss
       13.8251 - val_mean_absolute_error: 2
      2303
2919 Epoch 1308/20000
     - 0s - loss: 10.6747 -
2920
     mean_absolute_error: 2.2600 - val loss
       14.0468 - val_mean_absolute_error: 2
      2795
2921 Epoch 1309/20000
     - 0s - loss: 9.9862 -
2922
     mean_absolute_error: 2.2777 - val_loss
       14.2455 - val_mean_absolute_error: 2
      2888
2923 Epoch 1310/20000
     - 0s - loss: 10.4003 -
2924
     mean_absolute_error: 2.2346 - val_loss
       13.4448 - val_mean_absolute_error: 2
     2548
2925
2926 Epoch 01310: saving model to ./model/
```

```
File - boston01
2926 model_best.h5
2927 Epoch 1311/20000
2928 - 0s - loss: 9.0306
     mean_absolute_error: 2.2790 - val_loss
       14.0564 - val_mean_absolute_error: 2
      2876
2929 Epoch 1312/20000
2930 - 0s - Loss: 8.5262 -
     mean_absolute_error: 2.1926 - val_loss
       13.9573 - val_mean_absolute_error:
      2742
2931 Epoch 1313/20000
2932 - 0s - loss: 12.0664 -
     mean_absolute_error: 2.4199 - val_loss
       13.5634 - val_mean_absolute_error: 2
      2737
2933 Epoch 1314/20000
2934 - 0s - loss: 9.6764 -
     mean_absolute_error: 2.2007 - val_loss
       14.2084 - val_mean_absolute_error:
      2977
2935 Epoch 1315/20000
      - 0s - loss: 9.5643 -
2936
     mean_absolute_error: 2.1926 - val_l<u>oss</u>
```

```
13.7930 - val_mean_absolute_error: 2
2936
     2797
2937 Epoch 1316/20000
     - 0s - loss: 8.5510 -
2938
     mean_absolute_error: 2.2264 - val_loss
       13.7659 - val_mean_absolute_error: 2
      3228
2939 Epoch 1317/20000
2940
     - 0s - loss: 8.2515 -
     mean_absolute_error: 2.1395 - val_loss
       14.1303 - val_mean_absolute_error: 2
      3017
2941 Epoch 1318/20000
     - 0s - loss: 8.3573 -
2942
     mean_absolute_error: 2.1605 - val_loss
       15.1913 - val_mean_absolute_error: 2
      3988
2943 Epoch 1319/20000
     - 0s - loss: 9.4139
2944
     mean_absolute_error: 2.2092 - val_loss
       14.1250 - val_mean_absolute_error: 2
      3088
2945 Epoch 1320/20000
     - 0s - loss: 9.9433
2946
```

```
2946 mean_absolute_error: 2.3753 - val_loss
       13.4346 - val_mean_absolute_error: 2
     2587
2947
2948 Epoch 01320: saving model to ./model/
     model_best.h5
2949 Epoch 1321/20000
2950 - 0s - loss: 10.9727 -
     mean_absolute_error: 2.3416 - val_loss
       13.3239 - val_mean_absolute_error:
     . 2638
2951 Epoch 1322/20000
2952 - 0s - loss: 9.9495 -
     mean_absolute_error: 2.3173 - val_loss
       13.1410 - val_mean_absolute_error: 2
     2165
2953 Epoch 1323/20000
2954 - 0s - loss: 10.2837 -
     mean_absolute_error: 2.2412 - val_loss
       13.3233 - val_mean_absolute_error:
      2209
2955 Epoch 1324/20000
     - 0s - loss: 8.6963 -
2956
     mean_absolute_error: 2.1306 - val_loss
```

```
13.3105 - val_mean_absolute_error: 2
2956
     2356
2957 Epoch 1325/20000
     - 0s - loss: 8.4412 -
2958
     mean_absolute_error: 2.1772 - val_loss
       13.4070 - val_mean_absolute_error: 2
     2373
2959 Epoch 1326/20000
     - 0s - loss: 8.7059 -
2960
     mean_absolute_error: 2.2014 - val_loss
       13.7250 - val_mean_absolute_error: 2
      2683
2961 Epoch 1327/20000
     - Os - Loss: 8.2323 -
2962
     mean_absolute_error: 2.1291 - val_loss
       13.4066 - val_mean_absolute_error: 2
     2192
2963 Epoch 1328/20000
     - 0s - loss: 9.6596 -
2964
     mean_absolute_error: 2.2386 - val_loss
       13.5163 - val_mean_absolute_error: 2
      2655
2965 Epoch 1329/20000
2966 - 0s - loss: 8.8467
```

```
2966 mean_absolute_error: 2.1311 - val_loss
       14.4154 - val_mean_absolute_error: 2
      3454
2967 Epoch 1330/20000
     - 0s - Loss: 9.2787 -
2968
     mean_absolute_error: 2.2834 - val_loss
       13.5480 - val_mean_absolute_error: 2
     2688
2969
2970 Epoch 01330: saving model to ./model/
     model_best.h5
2971 Epoch 1331/20000
2972 - 0s - loss: 7.5755 -
     mean_absolute_error: 2.0434 - val_loss
       13.2786 - val_mean_absolute_error: 2
      2392
2973 Epoch 1332/20000
2974 - 0s - loss: 9.5027 -
     mean_absolute_error: 2.1951 - val_loss
       13.2192 - val_mean_absolute_error:
     2473
2975 Epoch 1333/20000
2976 - 0s - loss: 8.3473 -
     mean_absolute_error: 2.0753 - val_loss
```

```
13.4286 - val_mean_absolute_error: 2
2976 I
     2543
2977 Epoch 1334/20000
     - 0s - loss: 10.6325_-
2978
     mean_absolute_error: 2.4041 - val_loss
       13.4664 - val_mean_absolute_error: 2
      2370
2979 Epoch 1335/20000
     - 0s - loss: 10.7901 -
2980
     mean_absolute_error: 2.4083 - val_loss
       13.2435 - val_mean_absolute_error: 2
      2612
2981 Epoch 1336/20000
2982
     - 0s - loss: 7.9968 -
     mean_absolute_error: 2.0810 - val_loss
       13.0609 - val_mean_absolute_error: 2
     2005
2983 Epoch 1337/20000
     - 0s - loss: 9.3251
2984
     mean_absolute_error: 2.1602 - val_loss
       13.0906 - val_mean_absolute_error: 2
      2032
2985 Epoch 1338/20000
     - 0s - loss: 7.1490 -
2986
```

```
2986 mean_absolute_error: 1.9996 - val_loss
       13.2521 - val_mean_absolute_error: 2
      1904
2987 Epoch 1339/20000
     - 0s - loss: 9.3889 -
2988
     mean_absolute_error: 2.1665 - val_loss
       13.3620 - val_mean_absolute_error: 2
      2557
2989 Epoch 1340/20000
2990 - 0s - loss: 8.2607 -
     mean_absolute_error: 2.0407 - val_loss
       13.6407 - val_mean_absolute_error: 2
     3391
2991
2992 Epoch 01340: saving model to ./model/
     model_best.h5
2993 Epoch 1341/20000
2994 - 0s - loss: 9.6794 -
     mean_absolute_error: 2.2291 - val_loss
       13.3180 - val_mean_absolute_error:
     2381
2995 Epoch 1342/20000
     - 0s - loss: 10.5276 -
2996
     mean_absolute_error: 2.3460 - val_loss
```

```
13.4732 - val_mean_absolute_error: 2
2996
     2370
2997 Epoch 1343/20000
     - 0s - loss: 8.0572 -
2998
     mean_absolute_error: 2.1114 - val_loss
      13.6429 - val_mean_absolute_error: 2
     2170
2999 Epoch 1344/20000
3000
     - 0s - loss: 7.8381 -
     mean_absolute_error: 2.1127 - val_loss
       13.2894 - val_mean_absolute_error: 2
     2514
3001 Epoch 1345/20000
     - 0s - loss: 10.1248 -
3002
     mean_absolute_error: 2.3203 - val_loss
      13.2596 - val_mean_absolute_error: 2
     . 1630
3003 Epoch 1346/20000
     - 0s - loss: 10.4509 -
3004
     mean_absolute_error: 2.4326 - val_loss
       13.9286 - val_mean_absolute_error: 2
     3704
3005 Epoch 1347/20000
3006 - 0s - loss: 8.7695
```

```
3006 mean_absolute_error: 2.1511 - val_loss
       13.9158 - val_mean_absolute_error: 2
     1905
3007 Epoch 1348/20000
     - 0s - loss: 10.5621 -
3008
     mean_absolute_error: 2.3182 - val_loss
       13.6917 - val_mean_absolute_error: 2
     2097
3009 Epoch 1349/20000
3010 - 0s - loss: 9.7933
     mean_absolute_error: 2.2034 - val_loss
      13.5563 - val_mean_absolute_error: 2
     2364
3011 Epoch 1350/20000
3012 - 0s - loss: 7.2799 -
     mean_absolute_error: 1.9759 - val_loss
      13.5800 - val_mean_absolute_error: 2
     2252
3013
3014 Epoch 01350: saving model to ./model/
     model_best.h5
3015 Epoch 1351/20000
3016 - 0s - loss: 9.2427 -
     mean_absolute_error: 2.2839 - val_loss
```

```
13.4482 - val_mean_absolute_error: 2
3016
     1958
3017 Epoch 1352/20000
     - 0s - loss: 8.7355 -
3018
     mean_absolute_error: 2.2322 - val_loss
       13.2656 - val_mean_absolute_error: 2
     2052
3019 Epoch 1353/20000
3020
     - 0s - loss: 8.5478 -
     mean_absolute_error: 2.0926 - val_loss
       12.8712 - val_mean_absolute_error: 2
     2246
3021 Epoch 1354/20000
     - 0s - loss: 9.0629 -
3022
     mean_absolute_error: 2.1958 - val_loss
      12.7161 - val_mean_absolute_error: 2
     1964
3023 Epoch 1355/20000
     - 0s - loss: 8.4620 -
3024
     mean_absolute_error: 2.0864 - val_loss
       13.1625 - val_mean_absolute_error: 2
     2588
3025 Epoch 1356/20000
3026 - 0s - loss: 8.9332
```

```
3026 mean_absolute_error: 2.1230 - val_loss
       13.0671 - val_mean_absolute_error: 2
     1945
3027 Epoch 1357/20000
     - 0s - Loss: 9.1898 -
3028
     mean_absolute_error: 2.2531 - val_loss
       13.2476 - val_mean_absolute_error: 2
     2330
3029 Epoch 1358/20000
3030 - 0s - loss: 8.2863
     mean_absolute_error: 2.1618 - val_loss
       12.9648 - val_mean_absolute_error: 2
     2240
3031 Epoch 1359/20000
3032 - 0s - loss: 9.3023
     mean_absolute_error: 2.2146 - val_loss
      13.3815 - val_mean_absolute_error: 2
     1982
3033 Epoch 1360/20000
     - 0s - loss: 8.4309 -
3034
     mean_absolute_error: 2.1113 - val_loss
     : 13.5382 - val_mean_absolute_error:
     . 1813
3035
```

Page 304 of 1152

```
3036 Epoch 01360: saving model to ./model/
     model best.h5
3037 Epoch 1361/20000
3038 - 0s - loss: 8.0124 -
     mean_absolute_error: 2.1241 - val_loss
      12.9680 - val_mean_absolute_error: 2
     1936
3039 Epoch 1362/20000
3040
     - 0s - loss: 9.2255 -
     mean_absolute_error: 2.2206 - val_loss
       12.7960 - val_mean_absolute_error: 2
     1533
3041 Epoch 1363/20000
     - 0s - loss: 7.7619 -
3042
     mean_absolute_error: 2.1379 - val_loss
      12.8542 - val_mean_absolute_error: 2
     . 1767
3043 Epoch 1364/20000
     - 0s - loss: 8.4622 -
3044
     mean_absolute_error: 2.1764 - val_loss
       12.7527 - val_mean_absolute_error: 2
      1974
3045 Epoch 1365/20000
3046 - Os - Loss: 8.2192
```

```
3046 mean_absolute_error: 2.1335 - val_loss
       12.9570 - val_mean_absolute_error: 2
     1815
3047 Epoch 1366/20000
3048 - 0s - loss: 10.0518 -
     mean_absolute_error: 2.1964 - val_loss
       13.1272 - val_mean_absolute_error: 2
     2336
3049 Epoch 1367/20000
3050 - 0s - loss: 8.1473 ·
     mean_absolute_error: 2.0706 - val_loss
       12.6327 - val_mean_absolute_error: 2
     2223
3051 Epoch 1368/20000
3052 - 0s - loss: 7.4579 -
     mean_absolute_error: 2.0316 - val_loss
       12.7492 - val_mean_absolute_error: 2
     1829
3053 Epoch 1369/20000
     - 0s - loss: 10.0237 -
3054
     mean_absolute_error: 2.3078 - val_loss
       14.2104 - val_mean_absolute_error:
      3875
3055 Epoch 1370/20000
```

mean_absolute_error: 2.2390 - val_loss : 13.0593 - val_mean_absolute_error: 2

2732

3065 Epoch 1374/20000

3066 - 0s - loss: 8.8360 -

```
3066 mean_absolute_error: 2.1141 - val_loss
       13.3087 - val_mean_absolute_error: 2
      2889
3067 Epoch 1375/20000
3068 - 0s - loss: 10.5487 -
     mean_absolute_error: 2.3743 - val_loss
       12.9423 - val_mean_absolute_error: 2
     2145
3069 Epoch 1376/20000
3070 - 0s - loss: 8.2846 -
     mean_absolute_error: 2.1468 - val_loss
      13.8416 - val_mean_absolute_error: 2
     2684
3071 Epoch 1377/20000
3072 - 0s - loss: 8.7865 -
     mean_absolute_error: 2.1804 - val_loss
      13.3168 - val_mean_absolute_error: 2
     1993
3073 Epoch 1378/20000
     - 0s - loss: 8.8396 -
3074
     mean_absolute_error: 2.1711 - val_loss
       14.2179 - val_mean_absolute_error:
      3759
3075 Epoch 1379/20000
```

3085 Epoch 1383/20000 3086 - 0s - Loss: 9.0047 -

2220

```
3086 mean_absolute_error: 2.3170 - val_loss
       13.4512 - val_mean_absolute_error: 2
      2695
3087 Epoch 1384/20000
     - 0s - loss: 9.7477 -
3088
     mean_absolute_error: 2.2286 - val_loss
       13.3429 - val_mean_absolute_error: 2
     2426
3089 Epoch 1385/20000
3090 - 0s - loss: 8.1683
     mean_absolute_error: 2.1521 - val_loss
       13.1092 - val_mean_absolute_error: 2
     2203
3091 Epoch 1386/20000
3092 - 0s - loss: 7.7197 -
     mean_absolute_error: 2.1091 - val_loss
       12.9658 - val_mean_absolute_error: 2
     . 2151
3093 Epoch 1387/20000
     - 0s - Loss: 10.3451 -
3094
     mean_absolute_error: 2.3503 - val_loss
       13.7829 - val_mean_absolute_error:
      2965
3095 Epoch 1388/20000
```

3103 Epoch 1391/20000
3104 - 0s - loss: 8.4790 mean_absolute_error: 2.2604 - val_loss
: 13.4746 - val_mean_absolute_error: 2
.2415
3105 Epoch 1392/20000

3106 - 0s - loss: 10.2582 -

```
3106 mean_absolute_error: 2.2447 - val_loss
       13.5395 - val_mean_absolute_error: 2
      2542
3107 Epoch 1393/20000
3108 - 0s - loss: 10.4409 -
     mean_absolute_error: 2.2882 - val_loss
       13.6995 - val_mean_absolute_error: 2
     2659
3109 Epoch 1394/20000
3110 - 0s - loss: 8.4597 -
     mean_absolute_error: 2.1482 - val_loss
       13.5742 - val_mean_absolute_error: 2
     2558
3111 Epoch 1395/20000
3112 - 0s - loss: 8.5628 -
     mean_absolute_error: 2.1064 - val_loss
     : 12.9252 - val_mean_absolute_error: 2
     . 1960
3113 Epoch 1396/20000
3114 - 0s - loss: 9.0826 -
     mean_absolute_error: 2.2536 - val_loss
       13.4197 - val_mean_absolute_error:
      2355
3115 Epoch 1397/20000
```

```
- 0s - loss: 7.8894 -
3116
     mean_absolute_error: 2.0547 - val_loss
       14.5719 - val_mean_absolute_error: 2
      4460
3117 Epoch 1398/20000
     - 0s - loss: 7.4852 -
3118
     mean_absolute_error: 2.0746 - val_loss
       14.0750 - val_mean_absolute_error: 2
      3638
3119 Epoch 1399/20000
3120 - 0s - loss: 8.3326 -
     mean_absolute_error: 2.1234 - val_loss
       12.8711 - val_mean_absolute_error: 2
      2228
3121 Epoch 1400/20000
     - 0s - Loss: 8.4898 -
3122
     mean_absolute_error: 2.0143 - val_loss
       13.4797 - val_mean_absolute_error: 2
     2985
3123
     Epoch 01400: saving model to ./model/
3124
     model_best.h5
3125 Epoch 1401/20000
3126 - 0s - loss: 7.8906 -
```

```
3126 mean_absolute_error: 2.0450 - val_loss
       13.0559 - val_mean_absolute_error: 2
      2088
3127 Epoch 1402/20000
3128 - 0s - loss: 7.6248 -
     mean_absolute_error: 2.0564 - val_loss
       12.7357 - val_mean_absolute_error: 2
     . 1802
3129 Epoch 1403/20000
3130 - 0s - loss: 8.8095
     mean_absolute_error: 2.1454 - val_loss
      12.8594 - val_mean_absolute_error: 2
     . 2187
3131 Epoch 1404/20000
3132 - 0s - loss: 9.5650 ·
     mean_absolute_error: 2.2365 - val_loss
     : 13.1420 - val_mean_absolute_error: 2
     . 2112
3133 Epoch 1405/20000
3134 - 0s - loss: 9.2749 -
     mean_absolute_error: 2.1961 - val_loss
       13.1813 - val_mean_absolute_error:
     1987
3135 Epoch 1406/20000
```

```
- 0s - loss: 9.7999 -
3136
     mean_absolute_error: 2.2230 - val_loss
       13.9449 - val_mean_absolute_error: 2
      3402
3137 Epoch 1407/20000
     - 0s - loss: 8.8154 -
3138
     mean_absolute_error: 2.1878 - val_loss
       12.7093 - val_mean_absolute_error: 2
      1496
3139 Epoch 1408/20000
3140 - 0s - loss: 10.1656 -
     mean_absolute_error: 2.3227 - val_loss
       12.8447 - val_mean_absolute_error: 2
     1677
3141 Epoch 1409/20000
     - 0s - loss: 8.2024 -
3142
     mean_absolute_error: 2.0935 - val_loss
       12.9239 - val_mean_absolute_error: 2
      1772
3143 Epoch 1410/20000
     - 0s - loss: 8.3424 -
3144
     mean_absolute_error: 2.1171 - val_loss
     : 13.3151 - val_mean_absolute_error: 2
     1806
```

```
3145
3146 Epoch 01410: saving model to ./model/
     model_best.h5
3147 Epoch 1411/20000
3148 - 0s - loss: 10.9124 -
     mean_absolute_error: 2.3645 - val_loss
       13.3448 - val_mean_absolute_error: 2
     1851
3149 Epoch 1412/20000
3150 - 0s - loss: 9.5342 ·
     mean_absolute_error: 2.2461 - val_loss
       12.9424 - val_mean_absolute_error: 2
     1733
3151 Epoch 1413/20000
3152 - 0s - loss: 9.2420
     mean_absolute_error: 2.0941 - val_loss
       13.1965 - val_mean_absolute_error:
     2392
3153 Epoch 1414/20000
     - 0s - loss: 8.9237 -
3154
     mean_absolute_error: 2.1556 - val_loss
       12.7134 - val_mean_absolute_error:
     2169
3155 Epoch 1415/20000
```

```
- 0s - loss: 8.4849 -
3156
     mean_absolute_error: 2.0886 - val_loss
       12.6217 - val_mean_absolute_error: 2
      2221
3157 Epoch 1416/20000
     - 0s - loss: 10.2226 -
3158
     mean_absolute_error: 2.1710 - val_loss
       12.9332 - val_mean_absolute_error: 2
      2247
3159 Epoch 1417/20000
3160 - 0s - loss: 9.5901 -
     mean_absolute_error: 2.1807 - val_loss
       13.2091 - val_mean_absolute_error: 2
     2322
3161 Epoch 1418/20000
     - 0s - loss: 9.3632 -
3162
     mean_absolute_error: 2.1944 - val_loss
       12.7513 - val_mean_absolute_error: 2
      2068
3163 Epoch 1419/20000
     - 0s - loss: 8.8912 -
3164
     mean_absolute_error: 2.2533 - val_loss
       13.3116 - val_mean_absolute_error: 2
      2339
```

```
File - boston01
3165 Epoch 1420/20000
      - 0s - loss: 9.4345 -
3166
     mean_absolute_error: 2.1984 - val_loss
       13.1440 - val_mean_absolute_error: 2
      . 2570
3167
     Epoch 01420: saving model to ./model/
3168
     model_best.h5
3169 Epoch 1421/20000
3170 - 0s - loss: 9.3919 -
     mean_absolute_error: 2.2797 - val_loss
       13.0617 - val_mean_absolute_error: 2
      2489
3171 Epoch 1422/20000
3172 - 0s - loss: 9.1370 -
     mean_absolute_error: 2.2034 - val_loss
       14.0003 - val_mean_absolute_error: 2
      3036
3173 Epoch 1423/20000
3174 - Os - loss: 10.1144_-
     mean_absolute_error: 2.2839 - val_loss
       12.8527 - val_mean_absolute_error:
      2245
3175 Epoch 1424/20000
```

```
- 0s - loss: 9.1386 -
3176
     mean_absolute_error: 2.2462 - val_loss
       13.7432 - val_mean_absolute_error: 2
      3104
3177 Epoch 1425/20000
     - 0s - loss: 8.6085 -
3178
     mean_absolute_error: 2.1264 - val_loss
       12.8303 - val_mean_absolute_error: 2
      2524
3179 Epoch 1426/20000
3180 - 0s - loss: 7.9123 -
     mean_absolute_error: 2.0773 - val_loss
       13.6249 - val_mean_absolute_error: 2
     2572
3181 Epoch 1427/20000
     - 0s - loss: 10.3493 -
3182
     mean_absolute_error: 2.3154 - val_loss
       13.3502 - val_mean_absolute_error: 2
      2350
3183 Epoch 1428/20000
     - 0s - loss: 8.0532 -
3184
     mean_absolute_error: 2.0931 - val_loss
       12.9689 - val_mean_absolute_error: 2
     2043
```

```
File - boston01
3185 Epoch 1429/20000
      - 0s - loss: 8.6250 -
3186
     mean_absolute_error: 2.1252 - val_loss
       12.7885 - val_mean_absolute_error: 2
      2085
3187 Epoch 1430/20000
      - Os - Loss: 8.3613 -
3188
     mean_absolute_error: 2.1023 - val_loss
       12.7542 - val_mean_absolute_error: 2
      . 2108
3189
3190 Epoch 01430: saving model to ./model/
     model_best.h5
3191 Epoch 1431/20000
3192 - 0s - loss: 9.2128
     mean_absolute_error: 2.2522 - val_loss
       12.9686 - val_mean_absolute_error: 2
      2255
3193 Epoch 1432/20000
      - 0s - loss: 7.7671 -
3194
     mean_absolute_error: 2.0684 - val_loss
       13.1690 - val_mean_absolute_error:
      2662
3195 Epoch 1433/20000
```

```
- 0s - loss: 6.3182 -
3196
     mean_absolute_error: 1.9562 - val_loss
       12.9819 - val_mean_absolute_error: 2
      1856
3197 Epoch 1434/20000
     - 0s - loss: 10.2511 -
3198
     mean_absolute_error: 2.3449 - val_loss
       13.0343 - val_mean_absolute_error: 2
      2065
3199 Epoch 1435/20000
3200 - 0s - loss: 9.6083 -
     mean_absolute_error: 2.1111 - val_loss
       13.7523 - val_mean_absolute_error: 2
     2616
3201 Epoch 1436/20000
     - 0s - loss: 7.6666 -
3202
     mean_absolute_error: 2.0921 - val loss
       13.5764 - val_mean_absolute_error: 2
      2257
3203 Epoch 1437/20000
     - 0s - loss: 8.8862 -
3204
     mean_absolute_error: 2.1808 - val_l<u>oss</u>
     : 12.7168 - val_mean_absolute_error: 2
     1935
```

```
File - boston01
3205 Epoch 1438/20000
      - 0s - loss: 9.0839 -
3206
     mean_absolute_error: 2.2045 - val_loss
       12.5800 - val_mean_absolute_error: 2
      2199
3207 Epoch 1439/20000
      - 0s - loss: 9.8948 -
3208
     mean_absolute_error: 2.3080 - val_loss
       13.1624 - val_mean_absolute_error: 2
      2236
3209 Epoch 1440/20000
3210 - 0s - loss: 8.3734 -
     mean_absolute_error: 2.1469 - val_loss
       13. 2634 - val_mean_absolute_error: 2
      . 2128
3211
3212 Epoch 01440: saving model to ./model/
     model_best.h5
3213 Epoch 1441/20000
3214 - 0s - loss: 10.0002 -
     mean_absolute_error: 2.2168 - val_loss
       13.6987 - val_mean_absolute_error:
      2453
3215 Epoch 1442/20000
```

```
- 0s - loss: 7.5278 -
3216
     mean_absolute_error: 2.1272 - val_loss
       13.3786 - val_mean_absolute_error: 2
      2043
3217 Epoch 1443/20000
     - 0s - loss: 10.6457 -
3218
     mean_absolute_error: 2.2410 - val_loss
       13.2448 - val_mean_absolute_error: 2
     1918
3219 Epoch 1444/20000
3220 - 0s - loss: 8.3430 -
     mean_absolute_error: 2.0768 - val_loss
       13.4582 - val_mean_absolute_error: 2
     2134
3221 Epoch 1445/20000
     - 0s - loss: 10.0526 -
3222
     mean_absolute_error: 2.2545 - val_loss
       13.6075 - val_mean_absolute_error: 2
      2257
3223 Epoch 1446/20000
     - 0s - loss: 7.7471 -
3224
     mean_absolute_error: 2.0622 - val_loss
       13.7165 - val_mean_absolute_error: 2
     2338
```

```
- 0s - loss: 9.1809 -
3236
     mean_absolute_error: 2.1672 - val_loss
       14.5144 - val_mean_absolute_error: 2
      3344
3237 Epoch 1452/20000
     - 0s - loss: 8.4739 -
3238
     mean_absolute_error: 2.1026 - val_loss
       13.2741 - val_mean_absolute_error: 2
      2263
3239 Epoch 1453/20000
3240 - 0s - loss: 10.0944 -
     mean_absolute_error: 2.1934 - val_loss
       12.5784 - val_mean_absolute_error: 2
     2037
3241 Epoch 1454/20000
     - 0s - Loss: 9.1369 -
3242
     mean_absolute_error: 2.2693 - val_loss
       12.5935 - val_mean_absolute_error: 2
      1787
3243 Epoch 1455/20000
     - 0s - loss: 8.8404 -
3244
     mean_absolute_error: 2.1021 - val_l<u>oss</u>
       13.4173 - val_mean_absolute_error: 2
     2862
```

13.5752 - val_mean_absolute_error: 2

```
File - boston01
3254 . 2878
3255
3256 Epoch 01460: saving model to ./model/
     model_best.h5
3257 Epoch 1461/20000
     - 0s - loss: 7.7120 -
3258
     mean_absolute_error: 2.1422 - val_loss
       12.4926 - val_mean_absolute_error: 2
      1739
3259 Epoch 1462/20000
3260 - 0s - loss: 8.7741 -
     mean_absolute_error: 2.2197 - val_loss
       12.9304 - val_mean_absolute_error: 2
      1921
3261 Epoch 1463/20000
      - 0s - loss: 10.2907 -
3262
     mean_absolute_error: 2.3693 - val_loss
       12.9009 - val_mean_absolute_error: 2
      1763
3263 Epoch 1464/20000
      - 0s - loss: 8.6726 -
3264
     mean_absolute_error: 2.0506 - val_loss
      12.7768 - val_mean_absolute_error: 2
      1699
```

mean_absolute_error: 2.1642 - val_loss : 13.0520 - val_mean_absolute_error: 2

```
File - boston01
     . 2006
3274
3275 Epoch 1470/20000
      - 0s - loss: 8.5953
3276
     mean_absolute_error: 2.1174 - val_loss
       12.8736 - val_mean_absolute_error: 2
      2379
3277
3278 Epoch 01470: saving model to ./model/
     model_best.h5
3279 Epoch 1471/20000
3280 - 0s - loss: 8.8246 -
     mean_absolute_error: 2.1525 - val_loss
       12.8314 - val_mean_absolute_error: 2
      1692
3281 Epoch 1472/20000
      - 0s - loss: 10.4276 -
3282
     mean_absolute_error: 2.2976 - val_loss
       12.9970 - val_mean_absolute_error: 2
      2048
3283 Epoch 1473/20000
      - 0s - loss: 8.6824 -
3284
     mean_absolute_error: 2.1304 - val_loss
      13.7680 - val_mean_absolute_error: 2
      3257
```

12.8868 - val_mean_absolute_error: 2

```
File - boston01
     . 2170
3294
3295 Epoch 1479/20000
      - 0s - loss: 8.7921
3296
     mean_absolute_error: 2.1638 - val_loss
       13.6880 - val_mean_absolute_error: 2
      3125
3297 Epoch 1480/20000
     - 0s - loss: 7.6584
3298
     mean_absolute_error: 1.9943 - val_loss
       12.9678 - val_mean_absolute_error:
      . 2447
3299
3300 Epoch 01480: saving model to ./model/
     model best.h5
3301 Epoch 1481/20000
      - 0s - loss: 8.4322 -
3302
     mean_absolute_error: 2.2323 - val_loss
       13.3675 - val_mean_absolute_error: 2
      2107
3303 Epoch 1482/20000
      - 0s - loss: 6.6812 -
3304
     mean_absolute_error: 1.9612 - val_loss
     : 13.3461 - val_mean_absolute_error: 2
      3101
```

13.8489 - val_mean_absolute_error: 2

```
File - boston01
     . 2731
3314
3315 Epoch 1488/20000
      - 0s - loss: 10.1286 -
3316
     mean_absolute_error: 2.2813 - val_loss
       13.3824 - val_mean_absolute_error: 2
      2450
3317 Epoch 1489/20000
3318 - 0s - loss: 8.6673 -
     mean_absolute_error: 2.1554 - val_loss
       13.5261 - val_mean_absolute_error:
      2350
3319 Epoch 1490/20000
3320 - 0s - loss: 8.3876 -
     mean_absolute_error: 2.0812 - val_loss
       13.2504 - val_mean_absolute_error:
      2374
3321
3322 Epoch 01490: saving model to ./model/
     model_best.h5
3323 Epoch 1491/20000
      - 0s - loss: 7.8988 -
3324
     mean_absolute_error: 2.0552 - val_loss
       13.8799 - val_mean_absolute_error: 2
      2399
```

```
File - boston01
     . 2352
3334
3335 Epoch 1497/20000
      - 0s - loss: 8.0250
3336
     mean_absolute_error: 2.0826 - val_loss
       14.0976 - val_mean_absolute_error: 2
      3099
3337 Epoch 1498/20000
3338 - 0s - loss: 7.4649 -
     mean_absolute_error: 2.0161 - val_loss
       13.2604 - val_mean_absolute_error:
      2411
3339 Epoch 1499/20000
3340 - 0s - loss: 10.1691 -
     mean_absolute_error: 2.2557 - val_loss
       13.5726 - val_mean_absolute_error:
      2710
3341 Epoch 1500/20000
      - 0s - loss: 8.0390 -
3342
     mean_absolute_error: 2.1322 - val_loss
       13.3218 - val_mean_absolute_error:
      2577
3343
     Epoch 01500: saving model to ./model/
3344
     model_best.h5
```

```
File - boston01
     . 2303
3354
3355 Epoch 1506/20000
      - 0s - loss: 9.1671
3356
     mean_absolute_error: 2.1649 - val_loss
       14.0330 - val_mean_absolute_error: 2
      3054
3357 Epoch 1507/20000
3358 - 0s - loss: 9.8923
     mean_absolute_error: 2.1780 - val_loss
       13.2102 - val_mean_absolute_error:
      2427
3359 Epoch 1508/20000
3360
      - 0s - loss: 7.4458 -
     mean_absolute_error: 1.9669 - val_loss
       13.2775 - val_mean_absolute_error:
      2549
3361 Epoch 1509/20000
      - 0s - loss: 9.5810 -
3362
     mean_absolute_error: 2.2640 - val_loss
       13.5819 - val_mean_absolute_error:
      2448
3363 Epoch 1510/20000
3364 - 0s - loss: 8.2276 -
     mean_absolute_error: 2.1277 - val_loss
```

```
13.7616 - val_mean_absolute_error: 2
3364
     2294
3365
3366 Epoch 01510: saving model to ./model/
     model_best.h5
3367 Epoch 1511/20000
     - 0s - loss: 8.7226 -
3368
     mean_absolute_error: 2.1428 - val_loss
       13.9282 - val_mean_absolute_error: 2
     2772
3369 Epoch 1512/20000
3370 - 0s - loss: 7.3597 -
     mean_absolute_error: 1.9940 - val_loss
       13.9344 - val_mean_absolute_error: 2
     2923
3371 Epoch 1513/20000
     - 0s - loss: 8.3931 -
3372
     mean_absolute_error: 2.1623 - val_loss
      14.3970 - val_mean_absolute_error: 2
     3084
3373 Epoch 1514/20000
3374 - 0s - loss: 8.9905
     mean_absolute_error: 2.2173 - val_loss
      15.4705 - val_mean_absolute_error: 2
```

```
File - boston01
      . 4133
3374
3375 Epoch 1515/20000
      - 0s - loss: 8.4777
3376
     mean_absolute_error: 2.0144 - val_loss
       13.4242 - val_mean_absolute_error: 2
      2691
3377 Epoch 1516/20000
3378 - 0s - loss: 7.4894
     mean_absolute_error: 2.0381 - val_loss
       13.8334 - val_mean_absolute_error:
      2898
3379 Epoch 1517/20000
3380
      - 0s - loss: 9.6381
     mean_absolute_error: 2.1898 - val_loss
       13.4038 - val_mean_absolute_error:
      2578
3381 Epoch 1518/20000
      - 0s - loss: 8.7564 -
3382
     mean_absolute_error: 2.2097 - val_loss
       13.6877 - val_mean_absolute_error:
      2651
3383 Epoch 1519/20000
      - 0s - loss: 8.5386 -
3384
     mean_absolute_error: 2.0944 - val_loss
```

```
13.5425 - val_mean_absolute_error: 2
3384
     2538
3385 Epoch 1520/20000
     - 0s - loss: 9.5525 -
3386
     mean_absolute_error: 2.2349 - val_loss
      13.3849 - val_mean_absolute_error: 2
     . 2767
3387
    Epoch 01520: saving model to ./model/
3388
     model best.h5
3389 Epoch 1521/20000
3390 - 0s - loss: 9.6936 -
     mean_absolute_error: 2.2348 - val_loss
       13.1192 - val_mean_absolute_error: 2
     2592
3391 Epoch 1522/20000
     - 0s - loss: 9.7010 -
3392
     mean_absolute_error: 2.1422 - val_loss
      13.1037 - val_mean_absolute_error: 2
     2866
3393 Epoch 1523/20000
3394 - Os - Loss: 10.3204 -
     mean_absolute_error: 2.0820 - val_loss
      12.9063 - val_mean_absolute_error: 2
```

```
File - boston01
      . 2324
3394
3395 Epoch 1524/20000
      - 0s - loss: 8.3901
3396
     mean_absolute_error: 2.0599 - val_loss
       13.6916 - val_mean_absolute_error: 2
      2438
3397 Epoch 1525/20000
3398 - 0s - loss: 7.7474
     mean_absolute_error: 2.1086 - val_loss
       13.3688 - val_mean_absolute_error:
      2327
3399 Epoch 1526/20000
3400 l
      - 0s - loss: 7.7029 -
     mean_absolute_error: 2.1046 - val_loss
       13.5523 - val_mean_absolute_error:
      2574
3401 Epoch 1527/20000
3402 - 0s - loss: 9.2937 -
     mean_absolute_error: 2.1528 - val_loss
       13.2796 - val_mean_absolute_error:
      2208
3403 Epoch 1528/20000
3404 - 0s - loss: 10.1330 -
     mean_absolute_error: 2.2620 - val_loss
```

```
13.2002 - val_mean_absolute_error: 2
3404
     1733
3405 Epoch 1529/20000
     - 0s - loss: 7.3474 -
3406
     mean_absolute_error: 1.9898 - val_loss
       13.1245 - val_mean_absolute_error: 2
      1908
3407 Epoch 1530/20000
3408
     - 0s - loss: 8.0423 -
     mean_absolute_error: 2.1250 - val_loss
       13.8968 - val_mean_absolute_error: 2
     . 3047
3409
3410 Epoch 01530: saving model to ./model/
     model_best.h5
3411 Epoch 1531/20000
     - 0s - loss: 11.6294 -
3412 l
     mean_absolute_error: 2.2640 - val_loss
       13.7067 - val_mean_absolute_error: 2
     2664
3413 Epoch 1532/20000
3414 - 0s - loss: 8.7247
     mean_absolute_error: 2.1601 - val_loss
      13.1528 - val_mean_absolute_error: 2
```

```
File - boston01
     . 2632
3414
3415 Epoch 1533/20000
3416 - 0s - loss: 8.4563
     mean_absolute_error: 2.1605 - val_loss
       13.1310 - val_mean_absolute_error: 2
      1953
3417 Epoch 1534/20000
3418 - 0s - loss: 7.5961
     mean_absolute_error: 2.0846 - val_loss
       13.1128 - val_mean_absolute_error:
      2117
3419 Epoch 1535/20000
3420 - 0s - loss: 8.5139 -
     mean_absolute_error: 2.0084 - val_loss
       12.9706 - val_mean_absolute_error:
      2477
3421 Epoch 1536/20000
3422 - 0s - loss: 7.2910 -
     mean_absolute_error: 2.0629 - val_loss
       13.1482 - val_mean_absolute_error:
      2206
3423 Epoch 1537/20000
3424 - 0s - loss: 8.8478 -
     mean_absolute_error: 2.1109 - val_l<u>oss</u>
```

```
14.4234 - val_mean_absolute_error: 2
3424
      3234
3425 Epoch 1538/20000
     - 0s - loss: 9.3446 -
3426
     mean_absolute_error: 2.1682 - val_loss
       13.4414 - val_mean_absolute_error: 2
     2110
3427 Epoch 1539/20000
3428
     - 0s - loss: 8.9559 -
     mean_absolute_error: 2.1282 - val_loss
       13.1673 - val_mean_absolute_error: 2
      2331
3429 Epoch 1540/20000
     - 0s - loss: 7.7822 -
3430
     mean_absolute_error: 2.0583 - val_loss
       13.3276 - val_mean_absolute_error: 2
     . 2367
3431
3432 Epoch 01540: saving model to ./model/
     model_best.h5
3433 Epoch 1541/20000
3434 - 0s - loss: 8.4358
     mean_absolute_error: 2.0633 - val_loss
     12.4313 - val_mean_absolute_error: 2
```

```
File - boston01
3434 . 1759
3435 Epoch 1542/20000
3436 - 0s - loss: 8.9987
     mean_absolute_error: 2.1537 - val_loss
       12.3867 - val_mean_absolute_error: 2
      1833
3437 Epoch 1543/20000
3438 - 0s - loss: 8.0996 -
     mean_absolute_error: 2.1098 - val_loss
       12.3465 - val_mean_absolute_error:
      1714
3439 Epoch 1544/20000
3440 - 0s - loss: 8.0739 -
     mean_absolute_error: 2.0364 - val_loss
       12.9388 - val_mean_absolute_error:
      2081
3441 Epoch 1545/20000
3442 - 0s - loss: 7.6905 -
     mean_absolute_error: 2.0228 - val_loss
       12.5030 - val_mean_absolute_error:
      1594
3443 Epoch 1546/20000
3444 - 0s - loss: 7.9642 -
     mean_absolute_error: 2.0983 - val_l<u>oss</u>
```

```
12.7027 - val_mean_absolute_error:
3444
     1635
3445 Epoch 1547/20000
     - 0s - loss: 8.6227 -
3446
     mean_absolute_error: 2.1663 - val_loss
       12.5982 - val_mean_absolute_error: 2
      1627
3447 Epoch 1548/20000
3448
     - 0s - loss: 10.0418 -
     mean_absolute_error: 2.1627 - val_loss
       12.7179 - val_mean_absolute_error: 2
      1993
3449 Epoch 1549/20000
     - 0s - loss: 6.9592 -
3450
     mean_absolute_error: 2.0874 - val_loss
       13.1492 - val_mean_absolute_error: 2
     . 2047
3451 Epoch 1550/20000
     - 0s - Loss: 8.7636 -
3452
     mean_absolute_error: 2.1476 - val_loss
       13.1781 - val_mean_absolute_error: 2
     2542
3453
    Epoch 01550: saving model to ./model/
3454
```

```
File - boston01
3454 model_best.h5
3455 Epoch 1551/20000
     - 0s - loss: 9.5563
3456
     mean_absolute_error: 2.1613 - val_loss
       13.4794 - val_mean_absolute_error: 2
      2778
3457 Epoch 1552/20000
3458 - 0s - Loss: 8.1499 -
     mean_absolute_error: 2.0998 - val_loss
       12.8776 - val_mean_absolute_error:
      1945
3459 Epoch 1553/20000
3460 - 0s - loss: 7.6109 -
     mean_absolute_error: 1.9658 - val_loss
       12.9031 - val_mean_absolute_error:
      1959
3461 Epoch 1554/20000
3462 - 0s - loss: 9.5996 -
     mean_absolute_error: 2.2192 - val_loss
       13.6519 - val_mean_absolute_error:
      3820
3463 Epoch 1555/20000
3464 - 0s - loss: 8.1409 -
     mean_absolute_error: 2.1199 - val_l<u>oss</u>
```

```
3464 : 13.3514 - val_mean_absolute_error: 2
     1947
3465 Epoch 1556/20000
     - 0s - loss: 7.8939 -
3466
     mean_absolute_error: 2.0433 - val_loss
       13.1962 - val_mean_absolute_error: 2
      2039
3467 Epoch 1557/20000
3468
     - 0s - loss: 8.0549 -
     mean_absolute_error: 2.1016 - val loss
       12.7484 - val_mean_absolute_error: 2
      1906
3469 Epoch 1558/20000
     - Os - loss: 8.3984 -
3470 l
     mean_absolute_error: 2.0947 - val_loss
      12.8065 - val_mean_absolute_error: 2
     1973
3471 Epoch 1559/20000
     - 0s - Loss: 6.8420 -
3472
     mean_absolute_error: 1.9339 - val_loss
       13.0383 - val_mean_absolute_error: 2
      2106
3473 Epoch 1560/20000
     - 0s - loss: 7.9642
3474
```

```
3474 mean_absolute_error: 2.1533 - val_loss
       13.0766 - val_mean_absolute_error: 2
      2224
3475
3476 Epoch 01560: saving model to ./model/
     model_best.h5
3477 Epoch 1561/20000
3478 - 0s - loss: 9.0720
     mean_absolute_error: 2.2205 - val_loss
       13.1377 - val_mean_absolute_error:
     2412
3479 Epoch 1562/20000
3480 - 0s - loss: 9.1988 -
     mean_absolute_error: 2.1594 - val_l<u>oss</u>
       13.2616 - val_mean_absolute_error:
     2449
3481 Epoch 1563/20000
3482 - 0s - loss: 7.5976 -
     mean_absolute_error: 2.1337 - val_loss
       13.1343 - val_mean_absolute_error:
     2177
3483 Epoch 1564/20000
     - 0s - loss: 9.9933 -
3484
     mean_absolute_error: 2.1348 - val_loss
```

```
13.7052 - val_mean_absolute_error: 2
3484
      2980
3485 Epoch 1565/20000
     - 0s - loss: 7.9997 -
3486
     mean_absolute_error: 2.0715 - val_loss
       12.5783 - val_mean_absolute_error: 2
      1716
3487 Epoch 1566/20000
3488
     - 0s - loss: 7.3984 -
     mean_absolute_error: 2.0127 - val_loss
       12.5361 - val_mean_absolute_error: 2
      1797
3489 Epoch 1567/20000
     - 0s - loss: 7.5826 -
3490
     mean_absolute_error: 1.9916 - val_loss
       12.5661 - val_mean_absolute_error: 2
     1702
3491 Epoch 1568/20000
     - 0s - Loss: 6.5240 -
3492
     mean_absolute_error: 1.9175 - val_loss
       12.4279 - val_mean_absolute_error: 2
      1484
3493 Epoch 1569/20000
     - 0s - loss: 8.6757
3494
```

```
3494 mean_absolute_error: 2.2220 - val_loss
       13.2330 - val_mean_absolute_error: 2
      2457
3495 Epoch 1570/20000
     - 0s - loss: 9.6862 -
3496
     mean_absolute_error: 2.2023 - val_loss
       12.6969 - val_mean_absolute_error: 2
     1764
3497
3498 Epoch 01570: saving model to ./model/
     model_best.h5
3499 Epoch 1571/20000
3500 - 0s - loss: 8.7026 -
     mean_absolute_error: 2.1119 - val_loss
       13.5196 - val_mean_absolute_error: 2
     2434
3501 Epoch 1572/20000
3502 - 0s - loss: 10.6442 -
     mean_absolute_error: 2.1715 - val_loss
       12.7365 - val_mean_absolute_error:
     1861
3503 Epoch 1573/20000
3504 - 0s - loss: 9.9278 -
     mean_absolute_error: 2.1934 - val_loss
```

```
12.7355 - val_mean_absolute_error: 2
3504 l
     1458
3505 Epoch 1574/20000
     - 0s - loss: 8.6417 -
3506
     mean_absolute_error: 2.1013 - val_loss
       13.4017 - val_mean_absolute_error: 2
      2005
3507 Epoch 1575/20000
3508
     - 0s - loss: 8.1213 -
     mean_absolute_error: 2.1484 - val_loss
       12.9368 - val_mean_absolute_error: 2
      1903
3509 Epoch 1576/20000
     - 0s - loss: 9.4824 -
3510
     mean_absolute_error: 2.1000 - val_loss
       12.7030 - val_mean_absolute_error: 2
     . 2053
3511 Epoch 1577/20000
     - 0s - loss: 8.8125 -
3512
     mean_absolute_error: 2.1632 - val_loss
       12.9716 - val_mean_absolute_error: 2
      1658
3513 Epoch 1578/20000
     - 0s - loss: 7.4772
3514
```

```
3514 mean_absolute_error: 2.0848 - val_loss
       13.7145 - val_mean_absolute_error: 2
      2535
3515 Epoch 1579/20000
3516 - Os - Loss: 7.8179 -
     mean_absolute_error: 2.0348 - val_loss
       12.8807 - val_mean_absolute_error: 2
     1762
3517 Epoch 1580/20000
    - 0s - loss: 9.1293
3518
     mean_absolute_error: 2.2294 - val_loss
      13.3851 - val_mean_absolute_error: 2
     . 2182
3519
3520 Epoch 01580: saving model to ./model/
     model_best.h5
3521 Epoch 1581/20000
3522 - Os - Loss: 9.4708 -
     mean_absolute_error: 2.1610 - val_loss
       13.8498 - val_mean_absolute_error:
     2774
3523 Epoch 1582/20000
3524 - 0s - loss: 6.8411 -
     mean_absolute_error: 1.9844 - val_loss
```

```
13.1010 - val_mean_absolute_error: 2
3524
     1842
3525 Epoch 1583/20000
     - 0s - loss: 10.7816 -
3526
     mean_absolute_error: 2.1445 - val_loss
      13.2538 - val_mean_absolute_error: 2
     1978
3527 Epoch 1584/20000
3528
     - 0s - loss: 8.1595 -
     mean_absolute_error: 2.0904 - val_loss
       13.2174 - val_mean_absolute_error: 2
      2057
3529 Epoch 1585/20000
     - 0s - loss: 6.9573 -
3530
     mean_absolute_error: 1.9525 - val_loss
      13.0616 - val_mean_absolute_error: 2
     . 2600
3531 Epoch 1586/20000
     - 0s - loss: 7.1279 -
3532
     mean_absolute_error: 1.9839 - val_loss
       12.8391 - val_mean_absolute_error: 2
     1763
3533 Epoch 1587/20000
     - 0s - loss: 11.2432
3534
```

```
3534 mean_absolute_error: 2.2492 - val_loss
       12.6245 - val_mean_absolute_error: 2
      1499
3535 Epoch 1588/20000
     - 0s - loss: 8.3650 -
3536
     mean_absolute_error: 2.1111 - val_loss
       12.5184 - val_mean_absolute_error: 2
     1397
3537 Epoch 1589/20000
3538
     - 0s - loss: 8.5403
     mean_absolute_error: 2.1251 - val_loss
      13.7206 - val_mean_absolute_error: 2
     2910
3539 Epoch 1590/20000
3540 - 0s - loss: 8.3143
     mean_absolute_error: 2.1285 - val_loss
     13.0556 - val_mean_absolute_error:
     . 1785
3541
3542 Epoch 01590: saving model to ./model/
     model_best.h5
3543 Epoch 1591/20000
3544 - 0s - loss: 8.0871 -
     mean_absolute_error: 2.0489 - val_loss
```

```
13.0069 - val_mean_absolute_error: 2
3544
     1701
3545 Epoch 1592/20000
     - 0s - loss: 7.2715 -
3546
     mean_absolute_error: 2.0079 - val_loss
      12.5472 - val_mean_absolute_error: 2
     1893
3547 Epoch 1593/20000
3548
     - 0s - loss: 8.0125 -
     mean_absolute_error: 2.0603 - val_loss
       12.8945 - val_mean_absolute_error: 2
     1338
3549 Epoch 1594/20000
     - 0s - loss: 8.4476 -
3550
     mean_absolute_error: 2.1614 - val_loss
      12.6967 - val_mean_absolute_error: 2
     . 1551
3551 Epoch 1595/20000
     - 0s - loss: 9.9489
3552
     mean_absolute_error: 2.2343 - val_loss
       12.6183 - val_mean_absolute_error: 2
     1508
3553 Epoch 1596/20000
     - 0s - loss: 7.5863
3554
```

```
3554 mean_absolute_error: 1.9813 - val_loss
       12.8212 - val_mean_absolute_error: 2
     1671
3555 Epoch 1597/20000
3556 - 0s - loss: 7.6981
     mean_absolute_error: 2.0987 - val_loss
       13.0628 - val_mean_absolute_error: 2
     2391
3557 Epoch 1598/20000
3558
     - 0s - loss: 9.3389 -
     mean_absolute_error: 2.2461 - val_loss
      13.5812 - val_mean_absolute_error: 2
     2207
3559 Epoch 1599/20000
3560 - 0s - loss: 10.4964 -
     mean_absolute_error: 2.1999 - val_loss
      12.8851 - val_mean_absolute_error:
     1704
3561 Epoch 1600/20000
     - 0s - Loss: 10.2559 -
3562
     mean_absolute_error: 2.1847 - val_loss
      13.5677 - val_mean_absolute_error:
     . 2501
3563
```

703

```
3564 Epoch 01600: saving model to ./model/
     model best.h5
3565 Epoch 1601/20000
3566 - 0s - loss: 10.0372 -
     mean_absolute_error: 2.2003 - val_loss
       12.6334 - val_mean_absolute_error: 2
     1671
3567 Epoch 1602/20000
3568
     - 0s - loss: 9.2613 -
     mean_absolute_error: 2.2112 - val_loss
       13.8822 - val_mean_absolute_error: 2
      3236
3569 Epoch 1603/20000
     - 0s - loss: 7.7221 -
3570
     mean_absolute_error: 2.1301 - val_loss
       12.8524 - val_mean_absolute_error: 2
     . 1886
3571 Epoch 1604/20000
     - 0s - loss: 7.8145 -
3572
     mean_absolute_error: 2.0327 - val_loss
       12.5649 - val_mean_absolute_error: 2
      1486
3573 Epoch 1605/20000
     - 0s - loss: 9.6382
3574
```

```
3574 mean_absolute_error: 2.2181 - val_loss
       12.4557 - val_mean_absolute_error: 2
      1917
3575 Epoch 1606/20000
3576 - 0s - Loss: 6.5373 -
     mean_absolute_error: 1.9221 - val_loss
       12.5172 - val_mean_absolute_error: 2
     1756
3577 Epoch 1607/20000
3578 - 0s - loss: 9.6845 ·
     mean_absolute_error: 2.3073 - val_loss
       13.2124 - val_mean_absolute_error: 2
     2228
3579 Epoch 1608/20000
3580 - 0s - loss: 9.1009 -
     mean_absolute_error: 2.1158 - val_loss
       12.8200 - val_mean_absolute_error:
     . 2396
3581 Epoch 1609/20000
     - 0s - loss: 8.4082 -
3582
     mean_absolute_error: 2.1429 - val_loss
       13.1998 - val_mean_absolute_error:
      2020
3583 Epoch 1610/20000
```

mean_absolute_error: 2.0955 - val_loss 12.3716 - val_mean_absolute_error: 2 1655

3593 Epoch 1614/20000

- 0s - loss: 9.3070 -3594

```
3594 mean_absolute_error: 2.1674 - val_loss
       12.2674 - val_mean_absolute_error: 2
      1890
3595 Epoch 1615/20000
     - 0s - Loss: 8.5905 -
3596
     mean_absolute_error: 2.1026 - val_loss
       13.0704 - val_mean_absolute_error: 2
     2740
3597 Epoch 1616/20000
3598
     - 0s - loss: 9.3386 -
     mean_absolute_error: 2.2242 - val_loss
       12.5184 - val_mean_absolute_error: 2
     2460
3599 Epoch 1617/20000
3600 - 0s - loss: 9.5899
     mean_absolute_error: 2.2141 - val_loss
       12.7965 - val_mean_absolute_error: 2
     . 2305
3601 Epoch 1618/20000
     - 0s - loss: 8.0538 -
3602
     mean_absolute_error: 2.0891 - val_loss
       12.5512 - val_mean_absolute_error:
      2056
3603 Epoch 1619/20000
```

mean_absolute_error: 2.0473 - val_loss : 12.6737 - val_mean_absolute_error: 2

2075

3613 Epoch 1623/20000

3614 - 0s - loss: 9.1808 -

```
3614 mean_absolute_error: 2.1857 - val_loss
       13.1562 - val_mean_absolute_error: 2
      2236
3615 Epoch 1624/20000
3616 - 0s - loss: 7.0661
     mean_absolute_error: 1.9628 - val_loss
       12.6910 - val_mean_absolute_error: 2
      1995
3617 Epoch 1625/20000
3618 - 0s - loss: 7.5753 -
     mean_absolute_error: 2.0654 - val_loss
       13.1149 - val_mean_absolute_error: 2
     2194
3619 Epoch 1626/20000
3620 - 0s - loss: 8.5222 ·
     mean_absolute_error: 2.1258 - val_loss
       12.9169 - val_mean_absolute_error: 2
     . 2547
3621 Epoch 1627/20000
3622 - 0s - loss: 7.9192 -
     mean_absolute_error: 1.9823 - val_loss
       12.7900 - val_mean_absolute_error:
      1998
3623 Epoch 1628/20000
```

```
- 0s - loss: 8.2742 -
3624
     mean_absolute_error: 2.0443 - val_loss
       13.2048 - val_mean_absolute_error: 2
      2044
3625 Epoch 1629/20000
     - 0s - loss: 8.6825 -
3626
     mean_absolute_error: 2.0714 - val_loss
       12.7641 - val_mean_absolute_error:
     1558
3627 Epoch 1630/20000
     - 0s - loss: 9.0027 -
3628
     mean_absolute_error: 2.0817 - val_loss
       13.7065 - val_mean_absolute_error:
     2771
3629
3630 Epoch 01630: saving model to ./model/
     model_best.h5
3631 Epoch 1631/20000
     - 0s - loss: 7.0496 -
3632
     mean_absolute_error: 1.8785 - val_loss
       12.6090 - val_mean_absolute_error: 2
      2090
3633 Epoch 1632/20000
     - 0s - loss: 9.2367
3634
```

```
3634 mean_absolute_error: 2.0566 - val_loss
       12.9106 - val_mean_absolute_error: 2
     2425
3635 Epoch 1633/20000
3636 - 0s - loss: 9.0509 -
     mean_absolute_error: 2.1877 - val_loss
       12.4599 - val_mean_absolute_error: 2
     1475
3637 Epoch 1634/20000
3638 - 0s - loss: 10.2476 -
     mean_absolute_error: 2.2109 - val_loss
       12.5498 - val_mean_absolute_error: 2
     1471
3639 Epoch 1635/20000
3640 - 0s - loss: 7.9914
     mean_absolute_error: 2.1541 - val_loss
     : 12.4111 - val_mean_absolute_error: 2
     1413
3641 Epoch 1636/20000
3642 - 0s - loss: 9.0043 -
     mean_absolute_error: 2.0785 - val_loss
       12.2646 - val_mean_absolute_error:
     1269
3643 Epoch 1637/20000
```

```
- 0s - loss: 9.3513 -
3644
     mean_absolute_error: 2.1342 - val_loss
       12.5488 - val_mean_absolute_error:
      1457
3645 Epoch 1638/20000
     - 0s - loss: 8.4888 -
3646
     mean_absolute_error: 2.0697 - val_loss
       12.9681 - val_mean_absolute_error:
     1840
3647 Epoch 1639/20000
     - Os - loss: 7.2299 -
3648
     mean_absolute_error: 1.9736 - val_loss
       12.5621 - val_mean_absolute_error:
     1630
3649 Epoch 1640/20000
     - 0s - loss: 9.7580 -
3650
     mean_absolute_error: 2.1762 - val_loss
       13.4799 - val_mean_absolute_error: 2
     1826
3651
    Epoch 01640: saving model to ./model/
3652
     model_best.h5
3653 Epoch 1641/20000
     - 0s - loss: 10.1857 -
3654 l
```

```
3654 mean_absolute_error: 2.2912 - val_loss
       13.4682 - val_mean_absolute_error: 2
      2526
3655 Epoch 1642/20000
3656 - 0s - Loss: 8.1368 -
     mean_absolute_error: 2.1118 - val_loss
       13.1160 - val_mean_absolute_error: 2
     1788
3657 Epoch 1643/20000
3658 - 0s - loss: 9.6624
     mean_absolute_error: 2.2228 - val_loss
       12.8322 - val_mean_absolute_error: 2
     1632
3659 Epoch 1644/20000
3660 - 0s - loss: 8.5057
     mean_absolute_error: 2.1510 - val_loss
       12.7248 - val_mean_absolute_error:
     1622
3661 Epoch 1645/20000
     - 0s - loss: 7.5572 -
3662
     mean_absolute_error: 2.0466 - val_loss
       13.4695 - val_mean_absolute_error:
      2595
3663 Epoch 1646/20000
```

```
- 0s - loss: 10.5598 -
3664
     mean_absolute_error: 2.2676 - val_loss
       12.9310 - val_mean_absolute_error: 2
      1745
3665 Epoch 1647/20000
3666
     - 0s - loss: 7.7483 -
     mean_absolute_error: 1.9886 - val_loss
       12.4133 - val_mean_absolute_error: 2
     1304
3667 Epoch 1648/20000
     - 0s - loss: 8.9748 -
3668
     mean_absolute_error: 2.0495 - val_loss
       12.4335 - val_mean_absolute_error: 2
     1282
3669 Epoch 1649/20000
     - 0s - loss: 8.7875 -
3670
     mean_absolute_error: 2.0878 - val_loss
       13.2308 - val_mean_absolute_error: 2
      2721
3671 Epoch 1650/20000
     - 0s - loss: 6.5102 -
3672
     mean_absolute_error: 1.8853 - val_loss
       12.5445 - val_mean_absolute_error: 2
     1862
```

```
3673
    Epoch 01650: saving model to ./model/
3674
     model_best.h5
3675 Epoch 1651/20000
    - 0s - loss: 10.8969 -
3676
     mean_absolute_error: 2.3171 - val_loss
       12.6311 - val_mean_absolute_error: 2
     1707
3677 Epoch 1652/20000
3678 - 0s - loss: 9.8039 -
     mean_absolute_error: 2.2023 - val_loss
       12.9540 - val_mean_absolute_error: 2
     2491
3679 Epoch 1653/20000
3680 - 0s - loss: 7.7820 ·
     mean_absolute_error: 2.0022 - val_loss
       12.6441 - val_mean_absolute_error:
     1645
3681 Epoch 1654/20000
     - 0s - loss: 8.1618 -
3682
     mean_absolute_error: 2.0779 - val_loss
       12.5439 - val_mean_absolute_error:
      1438
3683 Epoch 1655/20000
```

```
- 0s - loss: 8.9353 -
3684
     mean_absolute_error: 2.1426 - val_loss
       12.8731 - val_mean_absolute_error: 2
      2119
3685 Epoch 1656/20000
     - 0s - loss: 7.8294 -
3686
     mean_absolute_error: 2.0719 - val_loss
       12.8855 - val_mean_absolute_error: 2
     2154
3687 Epoch 1657/20000
3688
     - 0s - loss: 7.2113 -
     mean_absolute_error: 1.9257 - val_loss
       12.5718 - val_mean_absolute_error: 2
     1612
3689 Epoch 1658/20000
     - 0s - loss: 7.7419 -
3690
     mean_absolute_error: 2.0707 - val_loss
       13.4470 - val_mean_absolute_error: 2
      2829
3691 Epoch 1659/20000
     - 0s - loss: 9.5439 -
3692
     mean_absolute_error: 2.1557 - val_loss
       14.0250 - val_mean_absolute_error: 2
     3280
```

```
File - boston01
3693 Epoch 1660/20000
      - 0s - loss: 8.4005 -
3694
     mean_absolute_error: 2.0717 - val_loss
       12.7306 - val_mean_absolute_error: 2
      1849
3695
     Epoch 01660: saving model to ./model/
3696
     model_best.h5
3697 Epoch 1661/20000
3698 - 0s - loss: 8.4644
     mean_absolute_error: 2.1006 - val_loss
       12.9968 - val_mean_absolute_error: 2
      1827
3699 Epoch 1662/20000
3700 - 0s - loss: 6.5837
     mean_absolute_error: 1.9744 - val_loss
       13.3032 - val_mean_absolute_error:
      3719
3701 Epoch 1663/20000
      - 0s - loss: 8.3401 -
3702
     mean_absolute_error: 2.1504 - val_loss
       13.1182 - val_mean_absolute_error:
      2400
3703 Epoch 1664/20000
```

```
- 0s - loss: 7.7154 -
```

mean_absolute_error: 2.0263 - val_loss

: 13.3567 - val_mean_absolute_error: 2

. 2641

3705 Epoch 1665/20000

3706 - 0s - loss: 9.3085 -

mean_absolute_error: 2.2238 - val_loss

: 12.8925 - val_mean_absolute_error: 2

. 2237

3707

Epoch 01665: ReduceLROnPlateau reducing learning rate to 0. 000100000000475.

3709 Epoch 1666/20000

3710 - 0s - loss: 7.3806 -

mean_absolute_error: 2.0368 - val_loss

: 12.8171 - val_mean_absolute_error: 2

2195

3711 Epoch 1667/20000

3712 - Os - Loss: 9.3069 -

mean_absolute_error: 2.1456 - val_loss

: 12.8333 - val_mean_absolute_error: 2

. 2176

3713 Epoch 1668/20000

```
- 0s - loss: 7.6360 -
3714
     mean_absolute_error: 2.0116 - val_loss
       12.8398 - val_mean_absolute_error: 2
      2183
3715 Epoch 1669/20000
     - 0s - loss: 9.1413 -
3716
     mean_absolute_error: 2.1355 - val_loss
       12.9081 - val_mean_absolute_error: 2
     2194
3717 Epoch 1670/20000
     - Os - loss: 7.7738 -
3718
     mean_absolute_error: 2.0277 - val_loss
      12.8455 - val_mean_absolute_error:
     . 2127
3719
3720 Epoch 01670: saving model to ./model/
     model_best.h5
3721 Epoch 1671/20000
3722 - 0s - loss: 7.3700 -
     mean_absolute_error: 1.9619 - val_loss
       12.8146 - val_mean_absolute_error: 2
      2086
3723 Epoch 1672/20000
     - 0s - loss: 7.7056 -
3724 l
```

```
3724 mean_absolute_error: 2.0521 - val_loss
       12.8186 - val_mean_absolute_error: 2
     2074
3725 Epoch 1673/20000
3726 - 0s - loss: 7.6936 -
     mean_absolute_error: 2.1090 - val_loss
      12.8021 - val_mean_absolute_error: 2
     2061
3727 Epoch 1674/20000
3728 - 0s - loss: 10.0213 -
     mean_absolute_error: 2.1972 - val_loss
      12.8656 - val_mean_absolute_error: 2
     2118
3729 Epoch 1675/20000
3730 - 0s - loss: 7.9064 -
     mean_absolute_error: 2.0872 - val_loss
      12.7787 - val_mean_absolute_error: 2
     2041
3731 Epoch 1676/20000
     - 0s - loss: 7.7412 -
3732
     mean_absolute_error: 2.0527 - val_loss
       12.7296 - val_mean_absolute_error:
      2049
3733 Epoch 1677/20000
```

```
- 0s - loss: 7.8014 -
3734
     mean_absolute_error: 2.0308 - val_loss
       12.8048 - val_mean_absolute_error: 2
      2125
3735 Epoch 1678/20000
     - 0s - loss: 7.1427 -
3736
     mean_absolute_error: 1.9467 - val_loss
       12.6940 - val_mean_absolute_error:
      2012
3737 Epoch 1679/20000
     - 0s - loss: 8.7694 -
3738
     mean_absolute_error: 2.1386 - val_loss
       12.6958 - val_mean_absolute_error:
      2074
3739 Epoch 1680/20000
     - 0s - loss: 9.3628 -
3740
     mean_absolute_error: 2.2001 - val_loss
       12.7074 - val_mean_absolute_error: 2
     2043
3741
     Epoch 01680: saving model to ./model/
3742
     model_best.h5
3743 Epoch 1681/20000
     - 0s - loss: 8.8703
3744
```

```
3744 mean_absolute_error: 2.1596 - val_loss
       12.7032 - val_mean_absolute_error: 2
     2005
3745 Epoch 1682/20000
3746 - 0s - Loss: 7.5295 ·
     mean_absolute_error: 1.9879 - val_loss
       12.7147 - val_mean_absolute_error: 2
     2014
3747 Epoch 1683/20000
3748 - 0s - loss: 6.3630 ·
     mean_absolute_error: 1.9492 - val_loss
      12.7054 - val_mean_absolute_error: 2
     2014
3749 Epoch 1684/20000
3750 - 0s - loss: 7.6583
     mean_absolute_error: 2.1398 - val_loss
      12.7183 - val_mean_absolute_error: 2
     1998
3751 Epoch 1685/20000
     - 0s - loss: 8.8529 -
3752
     mean_absolute_error: 2.1583 - val_loss
      12.7915 - val_mean_absolute_error:
     2041
3753 Epoch 1686/20000
```

```
- 0s - loss: 10.1803 -
3754
     mean_absolute_error: 2.2042 - val_loss
       12.8212 - val_mean_absolute_error: 2
      2092
3755 Epoch 1687/20000
     - 0s - loss: 8.4189 -
3756
     mean_absolute_error: 1.9776 - val_loss
       12.8271 - val_mean_absolute_error: 2
      2061
3757 Epoch 1688/20000
     - Os - loss: 8.4263 -
3758 I
     mean_absolute_error: 2.0781 - val_loss
       12.7796 - val_mean_absolute_error: 2
      2019
3759 Epoch 1689/20000
     - 0s - Loss: 8.0743 -
3760
     mean_absolute_error: 2.0943 - val_loss
       12.7687 - val_mean_absolute_error: 2
      2027
3761 Epoch 1690/20000
     - 0s - loss: 6.7511 -
3762
     mean_absolute_error: 1.9923 - val_loss
      12.8458 - val_mean_absolute_error: 2
     2076
```

```
3763
    Epoch 01690: saving model to ./model/
3764
     model_best.h5
3765 Epoch 1691/20000
3766 - 0s - loss: 7.6263 -
     mean_absolute_error: 2.0108 - val_loss
       12.7793 - val_mean_absolute_error: 2
     2046
3767 Epoch 1692/20000
3768 - Os - Loss: 8.4459 -
     mean_absolute_error: 2.1170 - val_loss
       12.8156 - val_mean_absolute_error: 2
     2050
3769 Epoch 1693/20000
3770 - 0s - loss: 8.2792 -
     mean_absolute_error: 1.9308 - val_loss
       12.7816 - val_mean_absolute_error:
     2013
3771 Epoch 1694/20000
3772 - 0s - loss: 7.8735 -
     mean_absolute_error: 2.0031 - val_loss
       12.8025 - val_mean_absolute_error:
      2051
3773 Epoch 1695/20000
```

```
- 0s - loss: 8.5884 -
3774
     mean_absolute_error: 2.0976 - val_loss
       12.7108 - val_mean_absolute_error: 2
      1991
3775 Epoch 1696/20000
3776 - 0s - loss: 7.0366 -
     mean_absolute_error: 1.9218 - val_loss
       12.6717 - val_mean_absolute_error: 2
      1958
3777 Epoch 1697/20000
3778 - 0s - loss: 7.5462 -
     mean_absolute_error: 2.0644 - val_loss
       12.7263 - val_mean_absolute_error: 2
      1949
3779 Epoch 1698/20000
     - 0s - loss: 8.2374 -
3780
     mean_absolute_error: 2.1087 - val_loss
       12.7363 - val_mean_absolute_error: 2
      1963
3781 Epoch 1699/20000
     - 0s - loss: 7.4287 -
3782
     mean_absolute_error: 2.0230 - val_l<u>oss</u>
     : 12.7644 - val_mean_absolute_error: 2
     2017
```

```
File - boston01
3783 Epoch 1700/20000
      - 0s - loss: 8.5520 -
3784
     mean_absolute_error: 2.1569 - val_loss
       12.7770 - val_mean_absolute_error: 2
      1983
3785
     Epoch 01700: saving model to ./model/
3786
     model_best.h5
3787 Epoch 1701/20000
3788 - 0s - loss: 7.1622 -
     mean_absolute_error: 1.9655 - val_loss
       12.8082 - val_mean_absolute_error: 2
      2028
3789 Epoch 1702/20000
3790 - 0s - loss: 7.9708
     mean_absolute_error: 2.0261 - val_loss
       12.8127 - val_mean_absolute_error:
      1972
3791 Epoch 1703/20000
      - 0s - loss: 8.6241 -
3792
     mean_absolute_error: 2.0568 - val_loss
       12.7516 - val_mean_absolute_error:
      1909
3793 Epoch 1704/20000
```

```
- 0s - loss: 9.0014 -
3794
     mean_absolute_error: 2.1352 - val_loss
       12.6738 - val_mean_absolute_error: 2
      1851
3795 Epoch 1705/20000
     - 0s - loss: 8.5626 -
3796
     mean_absolute_error: 2.0422 - val_loss
       12.6635 - val_mean_absolute_error: 2
      1826
3797 Epoch 1706/20000
     - 0s - loss: 8.5027 -
3798 l
     mean_absolute_error: 2.2264 - val_loss
       12.6794 - val_mean_absolute_error: 2
     1846
3799 Epoch 1707/20000
     - 0s - loss: 8.6623 -
3800
     mean_absolute_error: 2.1414 - val_loss
       12.6918 - val_mean_absolute_error: 2
     1837
3801 Epoch 1708/20000
     - 0s - loss: 7.6870 -
3802
     mean_absolute_error: 2.0277 - val_loss
     : 12.6389 - val_mean_absolute_error: 2
     1801
```

```
File - boston01
3803 Epoch 1709/20000
      - 0s - loss: 6.5448 -
3804
     mean_absolute_error: 1.8944 - val_loss
       12.7003 - val_mean_absolute_error: 2
      1852
3805 Epoch 1710/20000
3806 - Os - Loss: 7.4702 -
     mean_absolute_error: 1.9403 - val_loss
       12.6817 - val_mean_absolute_error: 2
      . 1836
3807
3808 Epoch 01710: saving model to ./model/
     model_best.h5
3809 Epoch 1711/20000
3810 - 0s - loss: 7.8153 -
     mean_absolute_error: 2.0859 - val_loss
       12.7421 - val_mean_absolute_error: 2
      1888
3811 Epoch 1712/20000
3812 - Os - Loss: 7.7596 -
     mean_absolute_error: 2.0666 - val_loss
       12.7095 - val_mean_absolute_error:
      1824
3813 Epoch 1713/20000
```

```
- 0s - loss: 8.6937 -
3814
     mean_absolute_error: 2.1725 - val_loss
       12.7104 - val_mean_absolute_error: 2
      1804
3815 Epoch 1714/20000
     - 0s - loss: 8.3450 -
3816 l
     mean_absolute_error: 2.1032 - val_loss
       12.8568 - val_mean_absolute_error: 2
     1967
3817 Epoch 1715/20000
3818 - 0s - loss: 7.5046 -
     mean_absolute_error: 1.9795 - val_loss
       12.8646 - val_mean_absolute_error: 2
     1984
3819 Epoch 1716/20000
     - 0s - loss: 7.7264 -
3820
     mean_absolute_error: 2.0392 - val_loss
       12.7764 - val_mean_absolute_error: 2
     1909
3821 Epoch 1717/20000
     - 0s - loss: 7.0721 -
3822
     mean_absolute_error: 1.9911 - val_loss
     : 12.7213 - val_mean_absolute_error: 2
     1853
```

```
File - boston01
3823 Epoch 1718/20000
      - 0s - Loss: 8.4186 -
3824
     mean_absolute_error: 2.1850 - val_loss
       12.7232 - val_mean_absolute_error: 2
      1860
3825 Epoch 1719/20000
      - 0s - loss: 6.5755 -
3826
     mean_absolute_error: 1.9280 - val_loss
       12.7344 - val_mean_absolute_error: 2
      1870
3827 Epoch 1720/20000
3828 - 0s - loss: 7.6896 -
     mean_absolute_error: 2.0935 - val_loss
       12.6092 - val_mean_absolute_error: 2
      . 1718
3829
3830 Epoch 01720: saving model to ./model/
     model_best.h5
3831 Epoch 1721/20000
      - 0s - loss: 8.4056 -
3832
     mean_absolute_error: 2.0627 - val_loss
       12.6787 - val_mean_absolute_error:
      1814
3833 Epoch 1722/20000
```

```
- 0s - loss: 6.2763 -
3834
     mean_absolute_error: 1.8594 - val_loss
       12.7704 - val_mean_absolute_error: 2
     1863
3835 Epoch 1723/20000
     - 0s - loss: 7.7992 -
3836
     mean_absolute_error: 2.1252 - val_loss
       12.6927 - val_mean_absolute_error: 2
     1791
3837 Epoch 1724/20000
3838 - 0s - loss: 8.9795 -
     mean_absolute_error: 2.1526 - val_loss
       12.6556 - val_mean_absolute_error: 2
     1770
3839 Epoch 1725/20000
     - 0s - loss: 7.4691 -
3840
     mean_absolute_error: 2.0597 - val_loss
       12.7511 - val_mean_absolute_error: 2
     1847
3841 Epoch 1726/20000
     - 0s - loss: 7.9785 -
3842
     mean_absolute_error: 1.9319 - val_loss
     : 12.6927 - val_mean_absolute_error: 2
     1810
```

```
File - boston01
3843 Epoch 1727/20000
      - 0s - loss: 7.2142 -
3844
     mean_absolute_error: 1.9197 - val_l<u>oss</u>
       12.6016 - val_mean_absolute_error: 2
      1741
3845 Epoch 1728/20000
3846 - Os - Loss: 7.7923 -
     mean_absolute_error: 2.0562 - val_loss
       12.5935 - val_mean_absolute_error: 2
      . 1718
3847 Epoch 1729/20000
3848 - 0s - loss: 7.2798 -
     mean_absolute_error: 1.9314 - val_loss
       12.5322 - val_mean_absolute_error: 2
      1642
3849 Epoch 1730/20000
3850 - Os - Loss: 8.1585 -
     mean_absolute_error: 2.0700 - val_loss
       12.4988 - val_mean_absolute_error: 2
      1691
3851
3852 Epoch 01730: saving model to ./model/
     model_best.h5
3853 Epoch 1731/20000
```

```
- 0s - loss: 7.2686 -
3854
     mean_absolute_error: 2.0219 - val_loss
       12.5201 - val_mean_absolute_error: 2
     1625
3855 Epoch 1732/20000
     - 0s - loss: 7.0101 -
3856
     mean_absolute_error: 2.0227 - val_loss
       12.5214 - val_mean_absolute_error: 2
     1612
3857 Epoch 1733/20000
3858 - Os - Loss: 7.7780 -
     mean_absolute_error: 2.0493 - val_loss
       12.5509 - val_mean_absolute_error: 2
     1596
3859 Epoch 1734/20000
     - 0s - loss: 7.6192 -
3860
     mean_absolute_error: 1.9804 - val_loss
       12.5551 - val_mean_absolute_error: 2
      1626
3861 Epoch 1735/20000
     - 0s - loss: 5.8101 -
3862
     mean_absolute_error: 1.8301 - val_loss
     : 12.5453 - val_mean_absolute_error: 2
     1612
```

12.6648 - val_mean_absolute_error: 2

```
File - boston01
     . 1696
3872
3873
3874 Epoch 01740: saving model to ./model/
     model_best.h5
3875 Epoch 1741/20000
     - 0s - loss: 7.2244 -
3876
     mean_absolute_error: 2.0389 - val_loss
       12.6681 - val_mean_absolute_error: 2
      1730
3877 Epoch 1742/20000
3878 - 0s - loss: 7.7662 -
     mean_absolute_error: 2.0749 - val_loss
       12.5726 - val_mean_absolute_error: 2
      1700
3879 Epoch 1743/20000
      - 0s - Loss: 8.2398 -
3880
     mean_absolute_error: 2.0422 - val_loss
       12.6176 - val_mean_absolute_error: 2
      1670
3881 Epoch 1744/20000
      - 0s - loss: 7.6842 -
3882
     mean_absolute_error: 2.0553 - val_loss
       12.5892 - val_mean_absolute_error: 2
      1648
```

```
File - boston01
3883 Epoch 1745/20000
      - 0s - loss: 8.4744 -
3884
     mean_absolute_error: 2.0325 - val_loss
       12.5523 - val_mean_absolute_error: 2
      1697
3885 Epoch 1746/20000
      - 0s - loss: 8.5278 -
3886
     mean_absolute_error: 2.0476 - val_loss
       12.6017 - val_mean_absolute_error: 2
      . 1720
3887 Epoch 1747/20000
      - 0s - loss: 7.0186 -
3888
     mean_absolute_error: 1.9347 - val_loss
       12.6011 - val_mean_absolute_error: 2
      1728
3889 Epoch 1748/20000
      - 0s - loss: 7.7058 -
3890
     mean_absolute_error: 1.8850 - val_loss
       12.6034 - val_mean_absolute_error: 2
      1695
3891 Epoch 1749/20000
     - 0s - Loss: 8.0151
3892
     mean_absolute_error: 2.0371 - val_loss
```

12.5965 - val_mean_absolute_error: 2

```
File - boston01
     . 1669
3892
3893 Epoch 1750/20000
      - 0s - loss: 7.2962
3894
     mean_absolute_error: 2.0320 - val_loss
       12.5913 - val_mean_absolute_error: 2
      1749
3895
3896 Epoch 01750: saving model to ./model/
     model_best.h5
3897 Epoch 1751/20000
3898 - 0s - loss: 8.2970 -
     mean_absolute_error: 2.0375 - val_loss
       12.6604 - val_mean_absolute_error:
      1754
3899 Epoch 1752/20000
      - 0s - loss: 8.5416 -
3900
     mean_absolute_error: 2.1207 - val_loss
       12.7723 - val_mean_absolute_error: 2
      1880
3901 Epoch 1753/20000
3902
      - 0s - loss: 8.5057 -
     mean_absolute_error: 2.0553 - val_loss
      12.6353 - val_mean_absolute_error: 2
      1809
```

mean_absolute_error: 2.0798 - val_loss

12.6798 - val_mean_absolute_error: 2

```
File - boston01
     . 1840
3912
3913 Epoch 1759/20000
      - 0s - loss: 7.4194
3914
     mean_absolute_error: 1.9910 - val_loss
       12.6514 - val_mean_absolute_error: 2
      1868
3915 Epoch 1760/20000
3916 - 0s - loss: 6.7449 -
     mean_absolute_error: 1.9359 - val_loss
     : 12.5771 - val_mean_absolute_error:
      . 1808
3917
3918 Epoch 01760: saving model to ./model/
     model_best.h5
3919 Epoch 1761/20000
      - 0s - loss: 6.9938 -
3920
     mean_absolute_error: 1.9660 - val_loss
       12.5411 - val_mean_absolute_error: 2
      1834
3921 Epoch 1762/20000
      - 0s - loss: 7.2141 -
3922
     mean_absolute_error: 2.0051 - val_loss
      12.5571 - val_mean_absolute_error: 2
      1766
```

12.6457 - val_mean_absolute_error: 2

```
File - boston01
     . 1703
3932
3933 Epoch 1768/20000
      - 0s - loss: 7.7257
3934
     mean_absolute_error: 2.0278 - val_loss
       12.7336 - val_mean_absolute_error: 2
      1741
3935 Epoch 1769/20000
3936 - 0s - loss: 7.0616 -
     mean_absolute_error: 2.0172 - val_loss
       12.6738 - val_mean_absolute_error:
      1730
3937 Epoch 1770/20000
3938
      - 0s - loss: 8.0690 -
     mean_absolute_error: 2.0232 - val_loss
       12.7355 - val_mean_absolute_error:
      . 1786
3939
3940 Epoch 01770: saving model to ./model/
     model_best.h5
3941 Epoch 1771/20000
      - 0s - loss: 7.3822 -
3942
     mean_absolute_error: 2.0057 - val_loss
      12.7388 - val_mean_absolute_error: 2
      1810
```

12.5298 - val_mean_absolute_error: 2

```
File - boston01
     . 1796
3952
3953 Epoch 1777/20000
      - 0s - loss: 7.9000
3954
     mean_absolute_error: 2.0312 - val_loss
       12.5512 - val_mean_absolute_error: 2
      1800
3955 Epoch 1778/20000
     - 0s - loss: 7.3244
3956
     mean_absolute_error: 2.0093 - val_loss
       12.6898 - val_mean_absolute_error:
      1801
3957 Epoch 1779/20000
3958
      - 0s - loss: 8.1805 -
     mean_absolute_error: 1.9929 - val_loss
       12.7640 - val_mean_absolute_error:
      1865
3959 Epoch 1780/20000
      - 0s - loss: 8.5376 -
3960
     mean_absolute_error: 2.0691 - val_loss
       12.7695 - val_mean_absolute_error:
      1891
3961
     Epoch 01780: saving model to ./model/
3962
     model_best.h5
```

```
File - boston01
3963 Epoch 1781/20000
      - 0s - loss: 7.1456 -
3964
     mean_absolute_error: 2.0298 - val_loss
       12.7774 - val_mean_absolute_error: 2
      1928
3965 Epoch 1782/20000
      - 0s - loss: 7.7344 -
3966
     mean_absolute_error: 1.9912 - val_loss
       12.6596 - val_mean_absolute_error: 2
      1893
3967 Epoch 1783/20000
      - 0s - loss: 8.1131
3968
     mean_absolute_error: 2.0275 - val_loss
       12.6231 - val_mean_absolute_error: 2
      1875
3969 Epoch 1784/20000
3970 - 0s - loss: 6.4411 -
     mean_absolute_error: 1.9000 - val_loss
       12.5979 - val_mean_absolute_error: 2
      1834
3971 Epoch 1785/20000
3972 - 0s - loss: 6.6633
     mean_absolute_error: 1.9383 - val_loss
```

12.5811 - val_mean_absolute_error: 2

```
File - boston01
     . 1872
3972
3973 Epoch 1786/20000
      - 0s - loss: 9.4324
3974
     mean_absolute_error: 2.1500 - val_loss
       12.5041 - val_mean_absolute_error: 2
      1865
3975 Epoch 1787/20000
3976 - 0s - loss: 6.9334
     mean_absolute_error: 1.8669 - val_loss
       12.5226 - val_mean_absolute_error:
      1791
3977 Epoch 1788/20000
3978
      - 0s - loss: 7.7672 -
     mean_absolute_error: 2.0254 - val_loss
       12.5450 - val_mean_absolute_error:
      1798
3979 Epoch 1789/20000
      - 0s - loss: 6.6775 -
3980
     mean_absolute_error: 1.9923 - val_loss
       12.5426 - val_mean_absolute_error:
      1812
3981 Epoch 1790/20000
3982
      - 0s - loss: 8.0903 -
     mean_absolute_error: 2.0838 - val_l<u>oss</u>
```

3991 Epoch 1794/20000

3992 - Os - Loss: 7.1942
mean_absolute_error: 1.9664 - val_loss
: 12.6377 - val_mean_absolute_error: 2

```
File - boston01
      . 1799
3992
3993 Epoch 1795/20000
      - 0s - loss: 7.7154
3994
     mean_absolute_error: 2.0808 - val_loss
       12.6136 - val_mean_absolute_error: 2
      1816
3995 Epoch 1796/20000
3996 - 0s - loss: 7.0878
     mean_absolute_error: 1.9436 - val_loss
       12.6355 - val_mean_absolute_error:
      1809
3997 Epoch 1797/20000
3998
      - 0s - Loss: 8.7978 -
     mean_absolute_error: 2.0636 - val_loss
       12.6564 - val_mean_absolute_error:
      1805
3999 Epoch 1798/20000
4000 - 0s - loss: 8.1772 -
     mean_absolute_error: 2.1427 - val_loss
       12.6027 - val_mean_absolute_error:
      1763
4001 Epoch 1799/20000
      - 0s - loss: 7.6008 -
4002
     mean_absolute_error: 2.0547 - val_l<u>oss</u>
```

```
12.6776 - val_mean_absolute_error: 2
4002
     1817
4003 Epoch 1800/20000
     - 0s - loss: 8.3410 -
4004
     mean_absolute_error: 2.1368 - val_loss
      12.6025 - val_mean_absolute_error: 2
     . 1781
4005
4006 Epoch 01800: saving model to ./model/
     model best.h5
4007 Epoch 1801/20000
4008 - 0s - loss: 6.0452 -
     mean_absolute_error: 1.8214 - val_loss
       12.5879 - val_mean_absolute_error: 2
     1783
4009 Epoch 1802/20000
4010 - 0s - loss: 6.6825 -
     mean_absolute_error: 1.9300 - val_loss
      12.6221 - val_mean_absolute_error: 2
     1801
4011 Epoch 1803/20000
4012 - 0s - loss: 8.8605
     mean_absolute_error: 2.0750 - val_loss
      12.5598 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1810
4012
4013 Epoch 1804/20000
4014 - 0s - loss: 7.5249
     mean_absolute_error: 2.0040 - val_loss
       12.5839 - val_mean_absolute_error: 2
      1782
4015 Epoch 1805/20000
4016 - 0s - loss: 7.8001
     mean_absolute_error: 2.0040 - val_loss
       12.6024 - val_mean_absolute_error:
      1789
4017 Epoch 1806/20000
     - 0s - loss: 7.4086 -
4018
     mean_absolute_error: 1.9626 - val_loss
       12.5886 - val_mean_absolute_error: 2
      1749
4019 Epoch 1807/20000
4020 - 0s - loss: 8.0736 -
     mean_absolute_error: 2.0346 - val_loss
       12.6000 - val_mean_absolute_error:
      1746
4021 Epoch 1808/20000
4022 - 0s - loss: 6.4644 -
     mean_absolute_error: 1.8787 - val_l<u>oss</u>
```

```
12.5787 - val_mean_absolute_error: 2
4022
     1769
4023 Epoch 1809/20000
     - 0s - loss: 6.4402 -
4024
     mean_absolute_error: 1.9553 - val_loss
       12.6107 - val_mean_absolute_error: 2
      1748
4025 Epoch 1810/20000
4026
     - 0s - loss: 6.5641 -
     mean_absolute_error: 1.9057 - val_loss
       12.5952 - val_mean_absolute_error: 2
     1766
4027
    Epoch 01810: saving model to ./model/
4028
     model_best.h5
4029 Epoch 1811/20000
4030 - 0s - loss: 7.8227 -
     mean_absolute_error: 2.0387 - val_loss
       12.6464 - val_mean_absolute_error: 2
     1730
4031 Epoch 1812/20000
4032 - 0s - Loss: 8.0358
     mean_absolute_error: 1.9868 - val_loss
     12.6623 - val_mean_absolute_error: 2
```

```
File - boston01
4032
     . 1748
4033 Epoch 1813/20000
     - 0s - loss: 7.5605
4034
     mean_absolute_error: 2.0420 - val_loss
       12.6066 - val_mean_absolute_error: 2
      1633
4035 Epoch 1814/20000
4036 - 0s - loss: 6.2784
     mean_absolute_error: 1.8771 - val_loss
       12.5664 - val_mean_absolute_error:
      1626
4037 Epoch 1815/20000
4038
      - 0s - loss: 8.2025 -
     mean_absolute_error: 2.0079 - val_loss
       12.5573 - val_mean_absolute_error:
      1789
4039 Epoch 1816/20000
4040 - 0s - loss: 6.3316 -
     mean_absolute_error: 1.8505 - val_loss
       12.6553 - val_mean_absolute_error:
      1639
4041 Epoch 1817/20000
      - 0s - loss: 8.2550 -
4042
     mean_absolute_error: 1.9636 - val_loss
```

```
12.7507 - val_mean_absolute_error: 2
4042
     1728
4043 Epoch 1818/20000
     - 0s - loss: 6.9361 -
4044
     mean_absolute_error: 1.9961 - val_loss
       12.6977 - val_mean_absolute_error: 2
     1708
4045 Epoch 1819/20000
4046
     - 0s - loss: 7.0214 -
     mean_absolute_error: 1.9508 - val_loss
       12.6983 - val_mean_absolute_error: 2
      1716
4047 Epoch 1820/20000
     - 0s - loss: 6.8995 -
4048
     mean_absolute_error: 1.9017 - val_loss
       12.6904 - val_mean_absolute_error: 2
     1711
4049
4050 Epoch 01820: saving model to ./model/
     model_best.h5
4051 Epoch 1821/20000
    - 0s - loss: 6.8515
4052
     mean_absolute_error: 1.9233 - val_loss
      12.5944 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1607
4052
4053 Epoch 1822/20000
      - 0s - loss: 7.1178
4054
     mean_absolute_error: 1.9479 - val_loss
       12.5836 - val_mean_absolute_error: 2
      1650
4055 Epoch 1823/20000
4056
      - 0s - Loss: 8.2181
     mean_absolute_error: 1.9703 - val_loss
       12.6620 - val_mean_absolute_error:
      1634
4057 Epoch 1824/20000
4058
     - 0s - loss: 7.7036 -
     mean_absolute_error: 2.0302 - val_loss
       12.7054 - val_mean_absolute_error:
      1654
4059 Epoch 1825/20000
4060 - 0s - loss: 6.6839 -
     mean_absolute_error: 1.8917 - val_loss
       12.7153 - val_mean_absolute_error:
      1650
4061 Epoch 1826/20000
     - 0s - loss: 7.6682 -
4062
     mean_absolute_error: 2.0612 - val_loss
```

4070 - 0s - Loss: 7.1859 - mean_absolute_error: 1.9467 - val_loss : 12.7702 - val_mean_absolute_error: 2 .1689

4071

4072 Epoch 01830: saving model to ./model/

```
File - boston01
4072 model_best.h5
4073 Epoch 1831/20000
4074 - 0s - loss: 9.7113
     mean_absolute_error: 2.0702 - val_loss
       12.6781 - val_mean_absolute_error: 2
      1666
4075 Epoch 1832/20000
4076 - 0s - loss: 7.7498
     mean_absolute_error: 1.9957 - val_loss
       12.6171 - val_mean_absolute_error:
      1613
4077 Epoch 1833/20000
4078 - 0s - loss: 7.4934 -
     mean_absolute_error: 2.0020 - val_loss
       12.6805 - val_mean_absolute_error:
      1673
4079 Epoch 1834/20000
4080 - 0s - loss: 8.8484 -
     mean_absolute_error: 2.1363 - val_loss
       12.6742 - val_mean_absolute_error:
      1667
4081 Epoch 1835/20000
      - 0s - loss: 7.5488 -
4082
     mean_absolute_error: 2.0720 - val_l<u>oss</u>
```

mean_absolute_error: 1.8336 - val_loss : 12.6245 - val_mean_absolute_error: 2

1646

4091 Epoch 1840/20000

4092 - 0s - loss: 6.9868 -

```
4092 mean_absolute_error: 1.9789 - val_loss
       12.6496 - val_mean_absolute_error: 2
     . 1671
4093
4094 Epoch 01840: saving model to ./model/
     model_best.h5
4095 Epoch 1841/20000
4096 - 0s - Loss: 8.1957 -
     mean_absolute_error: 2.0752 - val_loss
       12.7406 - val_mean_absolute_error: 2
     1765
4097 Epoch 1842/20000
4098 - 0s - loss: 6.8769 -
     mean_absolute_error: 1.8904 - val_loss
       12.6970 - val_mean_absolute_error: 2
      1723
4099 Epoch 1843/20000
4100 - 0s - loss: 6.3403 -
     mean_absolute_error: 1.9306 - val_loss
       12.6673 - val_mean_absolute_error:
     1705
4101 Epoch 1844/20000
4102 - 0s - loss: 7.6794 -
     mean_absolute_error: 1.9812 - val_loss
```

```
: 12.7903 - val_mean_absolute_error: 2
4102
     1775
4103 Epoch 1845/20000
4104 - 0s - loss: 7.7155 -
     mean_absolute_error: 1.9976 - val_loss
       12.8088 - val_mean_absolute_error: 2
      1793
4105 Epoch 1846/20000
     - 0s - loss: 7.0630 -
4106
     mean_absolute_error: 1.9292 - val_loss
       12.8989 - val_mean_absolute_error: 2
      1836
4107 Epoch 1847/20000
     - 0s - loss: 6.9447 -
4108
     mean_absolute_error: 1.8973 - val_loss
       12.8104 - val_mean_absolute_error: 2
     1795
4109 Epoch 1848/20000
4110 - 0s - loss: 7.2029 -
     mean_absolute_error: 2.0284 - val_loss
       12.7994 - val_mean_absolute_error: 2
      1809
4111 Epoch 1849/20000
4112 - 0s - loss: 6.7500 -
```

```
4112 mean_absolute_error: 1.8917 - val_loss
       12.7309 - val_mean_absolute_error: 2
      1778
4113 Epoch 1850/20000
     - 0s - loss: 7.5984 -
4114
     mean_absolute_error: 2.0053 - val_loss
       12.8085 - val_mean_absolute_error: 2
     . 1851
4115
4116 Epoch 01850: saving model to ./model/
     model_best.h5
4117 Epoch 1851/20000
4118 - 0s - loss: 8.2722 -
     mean_absolute_error: 2.0671 - val_l<u>oss</u>
       12.8143 - val_mean_absolute_error: 2
      1791
4119 Epoch 1852/20000
4120 - 0s - loss: 8.9075 -
     mean_absolute_error: 2.0352 - val_loss
       12.7487 - val_mean_absolute_error:
      1729
4121 Epoch 1853/20000
4122 - 0s - loss: 8.1617 -
     mean_absolute_error: 2.0741 - val_loss
```

```
: 12.6355 - val_mean_absolute_error: 2
4122
     1699
4123 Epoch 1854/20000
     - 0s - loss: 7.4343 -
4124
     mean_absolute_error: 1.9040 - val_loss
       12.6282 - val_mean_absolute_error: 2
     1705
4125 Epoch 1855/20000
     - 0s - loss: 6.4852 -
4126
     mean_absolute_error: 1.9044 - val loss
       12.6118 - val_mean_absolute_error: 2
     1672
4127 Epoch 1856/20000
     - 0s - loss: 7.6376 -
4128
     mean_absolute_error: 1.9652 - val_loss
     12.6272 - val_mean_absolute_error: 2
     . 1675
4129 Epoch 1857/20000
4130 - 0s - loss: 7.2946 -
     mean_absolute_error: 2.0611 - val_loss
       12.5813 - val_mean_absolute_error: 2
     1686
4131 Epoch 1858/20000
4132 - Os - Loss: 5.8787
```

```
4132 mean_absolute_error: 1.8256 - val_loss
       12.6380 - val_mean_absolute_error: 2
     1695
4133 Epoch 1859/20000
4134 - 0s - loss: 7.1252 -
     mean_absolute_error: 2.0435 - val_loss
       12.7088 - val_mean_absolute_error: 2
     1712
4135 Epoch 1860/20000
4136 - 0s - loss: 7.9560 -
     mean_absolute_error: 2.0415 - val_loss
       12.6614 - val_mean_absolute_error: 2
     1713
4137
4138 Epoch 01860: saving model to ./model/
     model_best.h5
4139 Epoch 1861/20000
4140 - 0s - loss: 7.8026 -
     mean_absolute_error: 2.1211 - val_loss
      12.7004 - val_mean_absolute_error:
     1705
4141 Epoch 1862/20000
4142 - 0s - loss: 7.4048 -
     mean_absolute_error: 1.9914 - val_loss
```

```
12.6994 - val_mean_absolute_error:
4142
      1739
4143 Epoch 1863/20000
4144 - 0s - loss: 8.6230 -
     mean_absolute_error: 2.0682 - val_loss
       12.7918 - val_mean_absolute_error: 2
      1771
4145 Epoch 1864/20000
4146
     - 0s - loss: 7.4903 -
     mean_absolute_error: 2.0773 - val_l<u>oss</u>
       12.7328 - val_mean_absolute_error: 2
      1691
4147 Epoch 1865/20000
     - 0s - loss: 6.9572 -
4148
     mean_absolute_error: 1.9015 - val_loss
      12.8756 - val_mean_absolute_error: 2
     . 1765
4149
4150 Epoch 01865: ReduceLROnPlateau
     reducing learning rate to 1.
     0000000475e-05.
4151 Epoch 1866/20000
4152 - 0s - loss: 7.5297 -
     mean_absolute_error: 2.0739 - val_l<u>oss</u>
```

```
: 12.8541 - val_mean_absolute_error:
4152
     1740
4153 Epoch 1867/20000
4154 - 0s - loss: 8.1241 -
     mean_absolute_error: 2.0524 - val_loss
       12.8486 - val_mean_absolute_error: 2
      1737
4155 Epoch 1868/20000
4156
     - 0s - loss: 7.6137 -
     mean_absolute_error: 1.9756 - val_loss
       12.8412 - val_mean_absolute_error: 2
      1730
4157 Epoch 1869/20000
     - 0s - loss: 7.4145 -
4158
     mean_absolute_error: 2.0512 - val_loss
       12.8311 - val_mean_absolute_error: 2
     1722
4159 Epoch 1870/20000
4160 - 0s - loss: 7.1321
     mean_absolute_error: 2.0487 - val_loss
       12.8323 - val_mean_absolute_error: 2
     1725
4161
4162 Epoch 01870: saving model to ./model/
```

```
File - boston01
4162 model_best.h5
4163 Epoch 1871/20000
4164 - 0s - loss: 6.7681
     mean_absolute_error: 1.9117 - val_loss
       12.8344 - val_mean_absolute_error: 2
      1730
4165 Epoch 1872/20000
4166 - 0s - loss: 7.8430 -
     mean_absolute_error: 2.0705 - val_loss
       12.8158 - val_mean_absolute_error:
      1715
4167 Epoch 1873/20000
4168 - 0s - loss: 7.2624 -
     mean_absolute_error: 1.9402 - val_loss
       12.8032 - val_mean_absolute_error: 2
      1705
4169 Epoch 1874/20000
4170 - 0s - loss: 5.6318 -
     mean_absolute_error: 1.8409 - val_loss
       12.8003 - val_mean_absolute_error:
      1704
4171 Epoch 1875/20000
4172 - 0s - loss: 6.9553 -
     mean_absolute_error: 1.9097 - val_loss
```

```
: 12.8028 - val_mean_absolute_error: 2
4172
     1708
4173 Epoch 1876/20000
     - 0s - loss: 7.9417 -
4174
     mean_absolute_error: 2.0866 - val_loss
       12.7923 - val_mean_absolute_error: 2
      1701
4175 Epoch 1877/20000
     - 0s - loss: 6.8397 -
4176
     mean_absolute_error: 1.8956 - val_loss
       12.7985 - val_mean_absolute_error: 2
      1704
4177 Epoch 1878/20000
     - 0s - loss: 6.6374 -
4178
     mean_absolute_error: 1.9501 - val_loss
       12.7923 - val_mean_absolute_error: 2
     . 1702
4179 Epoch 1879/20000
4180 - 0s - loss: 8.3235 -
     mean_absolute_error: 2.0660 - val_loss
       12.7947 - val_mean_absolute_error: 2
     1706
4181 Epoch 1880/20000
4182 - 0s - loss: 6.0649 -
```

```
4182 mean_absolute_error: 1.8702 - val_loss
       12.7834 - val_mean_absolute_error: 2
     . 1696
4183
4184 Epoch 01880: saving model to ./model/
     model_best.h5
4185 Epoch 1881/20000
4186 - 0s - loss: 8.0849 -
     mean_absolute_error: 2.0768 - val_loss
       12.7695 - val_mean_absolute_error: 2
     1690
4187 Epoch 1882/20000
4188 - 0s - loss: 7.9758 -
     mean_absolute_error: 2.0774 - val_loss
       12.7669 - val_mean_absolute_error: 2
      1684
4189 Epoch 1883/20000
4190 - 0s - loss: 6.6525 -
     mean_absolute_error: 1.8777 - val_loss
       12.7707 - val_mean_absolute_error:
     1689
4191 Epoch 1884/20000
4192 - 0s - loss: 6.9665 -
     mean_absolute_error: 1.8494 - val_loss
```

```
12.7724 - val_mean_absolute_error: 2
4192
     1692
4193 Epoch 1885/20000
     - 0s - loss: 7.4709 -
4194
     mean_absolute_error: 1.9750 - val_loss
       12.7829 - val_mean_absolute_error: 2
      1697
4195 Epoch 1886/20000
     - 0s - loss: 7.0783 -
4196
     mean_absolute_error: 1.8834 - val_loss
       12.7892 - val_mean_absolute_error: 2
      1699
4197 Epoch 1887/20000
     - Os - loss: 8.7899 -
4198
     mean_absolute_error: 2.0666 - val_loss
       12.7758 - val_mean_absolute_error: 2
     . 1691
4199 Epoch 1888/20000
4200 - 0s - Loss: 6.7959 ·
     mean_absolute_error: 1.8254 - val_loss
       12.7839 - val_mean_absolute_error: 2
      1699
4201 Epoch 1889/20000
4202 <u>- 0s - loss: 7.8491</u>
```

```
4202 mean_absolute_error: 2.0129 - val_loss
       12.7833 - val_mean_absolute_error: 2
     1703
4203 Epoch 1890/20000
4204 - 0s - loss: 7.0863 -
     mean_absolute_error: 2.0231 - val_loss
       12.7760 - val_mean_absolute_error: 2
     . 1696
4205
4206 Epoch 01890: saving model to ./model/
     model_best.h5
4207 Epoch 1891/20000
4208 - 0s - loss: 7.1430 -
     mean_absolute_error: 2.0325 - val_loss
       12.7671 - val_mean_absolute_error: 2
     1687
4209 Epoch 1892/20000
4210 - 0s - loss: 6.6251 -
     mean_absolute_error: 1.9091 - val_loss
       12.7676 - val_mean_absolute_error:
     1685
4211 Epoch 1893/20000
4212 - 0s - loss: 9.4071 -
     mean_absolute_error: 2.1442 - val_l<u>oss</u>
```

```
: 12.7701 - val_mean_absolute_error: 2
4212
     1690
4213 Epoch 1894/20000
     - 0s - loss: 5.6872 -
4214
     mean_absolute_error: 1.7904 - val_loss
       12.7652 - val_mean_absolute_error: 2
     1688
4215 Epoch 1895/20000
     - 0s - loss: 8.0486 -
4216
     mean_absolute_error: 2.0302 - val_loss
       12.7682 - val_mean_absolute_error: 2
      1686
4217 Epoch 1896/20000
     - Os - loss: 7.4990 -
4218
     mean_absolute_error: 1.9296 - val_loss
       12.7654 - val_mean_absolute_error: 2
     . 1682
4219 Epoch 1897/20000
4220 - 0s - loss: 7.2181
     mean_absolute_error: 1.9256 - val_loss
       12.7558 - val_mean_absolute_error: 2
     1677
4221 Epoch 1898/20000
4222 - 0s - loss: 7.1673 -
```

```
4222 mean_absolute_error: 1.9592 - val_loss
       12.7462 - val_mean_absolute_error: 2
     1672
4223 Epoch 1899/20000
4224 - 0s - loss: 8.3613 -
     mean_absolute_error: 2.0216 - val_loss
       12.7391 - val_mean_absolute_error: 2
     . 1664
4225 Epoch 1900/20000
4226 - 0s - loss: 6.8373
     mean_absolute_error: 1.9318 - val_loss
      12.7255 - val_mean_absolute_error: 2
     . 1652
4227
4228 Epoch 01900: saving model to ./model/
     model_best.h5
4229 Epoch 1901/20000
4230 - 0s - loss: 8.0969 -
     mean_absolute_error: 2.0489 - val_loss
      12.7208 - val_mean_absolute_error:
     1650
4231 Epoch 1902/20000
4232 - 0s - loss: 6.9694 -
     mean_absolute_error: 1.9412 - val_loss
```

```
12.7220 - val_mean_absolute_error: 2
```

. 1655

- 4233 Epoch 1903/20000
- 4234 0s loss: 7.8803 -

mean_absolute_error: 2.0016 - val_loss

: 12.7207 - val_mean_absolute_error: 2

. 1658

- 4235 Epoch 1904/20000
- 4236 Os Loss: 8.2167 -

mean_absolute_error: 2.0560 - val_loss

: 12.7160 - val_mean_absolute_error: 2

1656

- 4237 Epoch 1905/20000
- 4238 0s loss: 8.0969 -

mean_absolute_error: 2.0399 - val_loss

<u>: 12.7155 - val_mean_absolute_error: 2</u>

. 1662

- 4239 Epoch 1906/20000
- 4240 0s loss: 7.1993 -

mean_absolute_error: 1.9659 - val_loss

: 12.6952 - val_mean_absolute_error: 2

1645

- 4241 Epoch 1907/20000
- 4242 <u>- 0s loss:</u> 7.4035 -

```
4242 mean_absolute_error: 1.8870 - val_loss
       12.6970 - val_mean_absolute_error: 2
     1646
4243 Epoch 1908/20000
4244 - 0s - loss: 7.8669 -
     mean_absolute_error: 2.0091 - val_loss
       12.7084 - val_mean_absolute_error: 2
     . 1656
4245 Epoch 1909/20000
4246 - 0s - loss: 6.3182 -
     mean_absolute_error: 1.8633 - val_loss
       12.7132 - val_mean_absolute_error: 2
     1653
4247 Epoch 1910/20000
4248 - 0s - loss: 7.1758
     mean_absolute_error: 1.9283 - val_loss
     : 12.7149 - val_mean_absolute_error:
     . 1656
4249
4250 Epoch 01910: saving model to ./model/
     model_best.h5
4251 Epoch 1911/20000
4252 - 0s - loss: 7.6158 -
     mean_absolute_error: 1.9646 - val_loss
```

4259 Epoch 1915/20000

- 0s - loss: 6.3055 4260 mean_absolute_error: 1.7664 - val_loss 12.7156 - val_mean_absolute_error: 2 1664

4261 Epoch 1916/20000

- 0s - loss: 9.9226 -4262

```
4262 mean_absolute_error: 2.1924 - val_loss
       12.7243 - val_mean_absolute_error: 2
     1668
4263 Epoch 1917/20000
4264 - 0s - loss: 8.5778 -
     mean_absolute_error: 2.0914 - val_loss
       12.7295 - val_mean_absolute_error: 2
     . 1677
4265 Epoch 1918/20000
4266 - 0s - loss: 7.8392 -
     mean_absolute_error: 2.0017 - val_loss
       12.7246 - val_mean_absolute_error: 2
     1675
4267 Epoch 1919/20000
4268 - 0s - loss: 8.0122 -
     mean_absolute_error: 1.9796 - val_loss
       12.7312 - val_mean_absolute_error:
     1682
4269 Epoch 1920/20000
4270 - 0s - loss: 7.6196 -
     mean_absolute_error: 2.0299 - val_loss
     12.7311 - val_mean_absolute_error:
     . 1683
4271
```

```
4272 Epoch 01920: saving model to ./model/
     model best.h5
4273 Epoch 1921/20000
4274 - 0s - loss: 7.8253 -
     mean_absolute_error: 2.0190 - val_loss
       12.7358 - val_mean_absolute_error: 2
     1684
4275 Epoch 1922/20000
     - 0s - loss: 8.6958 -
4276
     mean_absolute_error: 2.1294 - val_loss
       12.7266 - val_mean_absolute_error: 2
      1679
4277 Epoch 1923/20000
     - 0s - loss: 7.1430 -
4278
     mean_absolute_error: 2.0028 - val_loss
       12.7079 - val_mean_absolute_error: 2
     . 1666
4279 Epoch 1924/20000
4280 - 0s - loss: 8,4251
     mean_absolute_error: 2.1422 - val_loss
       12.7019 - val_mean_absolute_error: 2
     1665
4281 Epoch 1925/20000
4282 - 0s - loss: 7.4790 -
```

```
4282 mean_absolute_error: 1.9731 - val_loss
       12.7005 - val_mean_absolute_error: 2
     1663
4283 Epoch 1926/20000
4284 - 0s - loss: 7.9546 -
     mean_absolute_error: 2.0917 - val_loss
       12.7119 - val_mean_absolute_error: 2
     1669
4285 Epoch 1927/20000
4286 - 0s - loss: 7.4582 -
     mean_absolute_error: 2.0126 - val_loss
       12.7052 - val_mean_absolute_error: 2
     1666
4287 Epoch 1928/20000
4288 - 0s - loss: 6.4178 -
     mean_absolute_error: 1.8852 - val_loss
      12.7003 - val_mean_absolute_error:
     1669
4289 Epoch 1929/20000
4290 - 0s - loss: 5.5384 -
     mean_absolute_error: 1.8210 - val_loss
       12.7091 - val_mean_absolute_error:
     1680
4291 Epoch 1930/20000
```

4301 Epoch 1934/20000

4302 <u>- 0s - loss:</u> 7.4119 -

```
4302 mean_absolute_error: 1.9788 - val_loss
       12.7019 - val_mean_absolute_error: 2
     1669
4303 Epoch 1935/20000
4304 - 0s - loss: 7.3453 -
     mean_absolute_error: 1.8456 - val_loss
       12.6992 - val_mean_absolute_error: 2
     . 1669
4305 Epoch 1936/20000
4306 - 0s - loss: 8.1919 -
     mean_absolute_error: 1.9962 - val_loss
       12.6971 - val_mean_absolute_error: 2
     1668
4307 Epoch 1937/20000
4308 - 0s - loss: 8.3210 -
     mean_absolute_error: 2.0565 - val_loss
       12.6949 - val_mean_absolute_error:
     1668
4309 Epoch 1938/20000
4310 - 0s - loss: 7.6107 -
     mean_absolute_error: 2.0633 - val_loss
       12.7142 - val_mean_absolute_error:
     1677
4311 Epoch 1939/20000
```

mean_absolute_error: 1.9834 - val_loss : 12.7022 - val_mean_absolute_error: 2 .1670

4321 Epoch 1943/20000

4322 - Os - Loss: 7.9428 -

```
4322 mean_absolute_error: 2.0238 - val_loss
       12.6955 - val_mean_absolute_error: 2
     1668
4323 Epoch 1944/20000
4324 - 0s - loss: 7.4792 -
     mean_absolute_error: 1.9717 - val_loss
       12.7047 - val_mean_absolute_error: 2
     . 1679
4325 Epoch 1945/20000
4326 - 0s - loss: 8.9589 -
     mean_absolute_error: 2.0915 - val_loss
       12.7091 - val_mean_absolute_error: 2
     1683
4327 Epoch 1946/20000
4328 - 0s - loss: 7.9002 -
     mean_absolute_error: 2.1069 - val_loss
     : 12.6962 - val_mean_absolute_error: 2
     1671
4329 Epoch 1947/20000
4330 - 0s - loss: 7.2995 -
     mean_absolute_error: 1.9926 - val_loss
       12.7036 - val_mean_absolute_error:
     1676
4331 Epoch 1948/20000
```

mean_absolute_error: 2.0577 - val_loss 12.7087 - val_mean_absolute_error: 2 1684 4341 Epoch 1952/20000 - 0s - loss: 6.1229

4342

```
4342 mean_absolute_error: 1.8598 - val_loss
       12.7084 - val_mean_absolute_error: 2
     1681
4343 Epoch 1953/20000
4344 - 0s - loss: 7.2902 -
     mean_absolute_error: 1.9589 - val_loss
       12.6990 - val_mean_absolute_error: 2
     . 1675
4345 Epoch 1954/20000
4346 - 0s - loss: 8.8721
     mean_absolute_error: 2.1428 - val_loss
       12.7011 - val_mean_absolute_error: 2
     1674
4347 Epoch 1955/20000
4348 - 0s - loss: 8.0195
     mean_absolute_error: 2.0447 - val_loss
     12.7013 - val_mean_absolute_error:
     1677
4349 Epoch 1956/20000
     - 0s - loss: 8.6559 -
4350
     mean_absolute_error: 2.1396 - val_loss
      12.6846 - val_mean_absolute_error:
     1666
4351 Epoch 1957/20000
```

4359

Epoch 01960: saving model to ./model/ 4360 model_best.h5

4361 Epoch 1961/20000

- 0s - loss: 7.7764 4362

```
4362 mean_absolute_error: 1.9307 - val_loss
       12.6800 - val_mean_absolute_error: 2
     1668
4363 Epoch 1962/20000
     - 0s - loss: 9.0678 -
4364
     mean_absolute_error: 2.1058 - val_loss
       12.6858 - val_mean_absolute_error: 2
     . 1670
4365 Epoch 1963/20000
4366 - 0s - loss: 6.2598
     mean_absolute_error: 1.8877 - val_loss
       12.6827 - val_mean_absolute_error: 2
     1672
4367 Epoch 1964/20000
    - 0s - loss: 8.5507
4368
     mean_absolute_error: 2.0860 - val_loss
      12.6809 - val_mean_absolute_error:
     1673
4369 Epoch 1965/20000
     - 0s - loss: 7.0668 -
4370
     mean_absolute_error: 1.9343 - val_loss
       12.6898 - val_mean_absolute_error:
     1678
4371 Epoch 1966/20000
```

```
- 0s - loss: 8.4215 -
4372
     mean_absolute_error: 2.1084 - val_loss
       12.6941 - val_mean_absolute_error: 2
      1680
4373 Epoch 1967/20000
     - 0s - loss: 6.9431 -
4374
     mean_absolute_error: 1.9988 - val_loss
       12.6950 - val_mean_absolute_error:
     1682
4375 Epoch 1968/20000
4376 - 0s - loss: 8.3454 -
     mean_absolute_error: 2.0323 - val_loss
       12.6955 - val_mean_absolute_error: 2
     1683
4377 Epoch 1969/20000
     - 0s - loss: 7.8539 -
4378
     mean_absolute_error: 2.1004 - val_loss
       12.6933 - val_mean_absolute_error: 2
      1682
4379 Epoch 1970/20000
     - 0s - loss: 8.3333 -
4380
     mean_absolute_error: 2.0145 - val_loss
     : 12.6876 - val_mean_absolute_error: 2
     1675
```

```
4381
    Epoch 01970: saving model to ./model/
4382
     model_best.h5
4383 Epoch 1971/20000
4384 - 0s - loss: 7.9508
     mean_absolute_error: 1.9800 - val_loss
       12.6774 - val_mean_absolute_error: 2
     . 1671
4385 Epoch 1972/20000
4386 - 0s - loss: 8.9574
     mean_absolute_error: 2.0499 - val_loss
       12.6754 - val_mean_absolute_error: 2
     1668
4387 Epoch 1973/20000
    - 0s - loss: 7.7259
4388
     mean_absolute_error: 1.9792 - val_loss
      12.6787 - val_mean_absolute_error:
     1665
4389 Epoch 1974/20000
     - 0s - loss: 7.2438 -
4390
     mean_absolute_error: 1.9347 - val_loss
       12.6748 - val_mean_absolute_error:
     1662
    Epoch 1975/20000
4391
```

mean_absolute_error: 2.0711 - val_loss 12.6753 - val_mean_absolute_error:

4395 Epoch 1977/20000

4396 - 0s - loss: 10.2061 mean_absolute_error: 2.1640 - val_loss 12.6752 - val_mean_absolute_error: 2 1659

4397 Epoch 1978/20000

- 0s - loss: 8.7204 -4398 mean_absolute_error: 2.0818 - val_loss 12.6757 - val_mean_absolute_error: 2 1660

4399 Epoch 1979/20000

- 0s - loss: 8.2985 -4400 mean_absolute_error: 2.0455 - val_loss 12.6707 - val_mean_absolute_error: 2 1661

```
File - boston01
4401 Epoch 1980/20000
      - 0s - loss: 6.6678 -
4402
     mean_absolute_error: 1.8508 - val_loss
       12.6808 - val_mean_absolute_error: 2
      . 1668
4403
     Epoch 01980: saving model to ./model/
4404
     model_best.h5
4405 Epoch 1981/20000
4406 - 0s - loss: 7.1439 -
     mean_absolute_error: 1.9901 - val_loss
       12.6709 - val_mean_absolute_error: 2
      1666
4407 Epoch 1982/20000
4408 - 0s - loss: 6.9311
     mean_absolute_error: 1.8966 - val_loss
       12.6786 - val_mean_absolute_error:
      1677
4409 Epoch 1983/20000
     - 0s - loss: 8.4113 -
4410
     mean_absolute_error: 1.9431 - val_loss
       12.6853 - val_mean_absolute_error:
      1683
4411 Epoch 1984/20000
```

```
- 0s - loss: 6.6104 -
4412
     mean_absolute_error: 1.8767 - val_loss
       12.6831 - val_mean_absolute_error: 2
      1678
4413 Epoch 1985/20000
4414 - 0s - loss: 8.4333 -
     mean_absolute_error: 2.0565 - val_loss
       12.6731 - val_mean_absolute_error: 2
     1675
4415 Epoch 1986/20000
4416 - 0s - loss: 9.3081 -
     mean_absolute_error: 2.1392 - val_loss
       12.6632 - val_mean_absolute_error: 2
     1674
4417 Epoch 1987/20000
     - Os - Loss: 7.5894 -
4418
     mean_absolute_error: 1.9514 - val_loss
       12.6691 - val_mean_absolute_error: 2
      1671
4419 Epoch 1988/20000
4420 - 0s - loss: 7.8329 -
     mean_absolute_error: 1.9694 - val_loss
     : 12.6710 - val_mean_absolute_error: 2
     1673
```

```
File - boston01
4421 Epoch 1989/20000
      - 0s - loss: 8.5085 -
4422
     mean_absolute_error: 2.0722 - val_loss
       12.6763 - val_mean_absolute_error: 2
      1674
4423 Epoch 1990/20000
4424 - 0s - loss: 7.7768 -
     mean_absolute_error: 1.9777 - val_loss
       12.6695 - val_mean_absolute_error: 2
      . 1673
4425
4426 Epoch 01990: saving model to ./model/
     model_best.h5
4427 Epoch 1991/20000
4428 - 0s - loss: 8.3563 -
     mean_absolute_error: 2.1134 - val_loss
       12.6745 - val_mean_absolute_error: 2
      1677
4429 Epoch 1992/20000
4430 - 0s - loss: 6.6026 -
     mean_absolute_error: 1.9013 - val_loss
       12.6706 - val_mean_absolute_error:
      1677
4431 Epoch 1993/20000
```

```
- 0s - loss: 8.2798 -
4432
     mean_absolute_error: 2.0207 - val_loss
       12.6708 - val_mean_absolute_error: 2
     1677
4433 Epoch 1994/20000
4434
     - 0s - loss: 7.4558 -
     mean_absolute_error: 2.0469 - val_loss
       12.6714 - val_mean_absolute_error: 2
     1677
4435 Epoch 1995/20000
4436 - 0s - loss: 8.0796 -
     mean_absolute_error: 2.0337 - val_loss
       12.6730 - val_mean_absolute_error: 2
     1680
4437 Epoch 1996/20000
     - 0s - loss: 8.6068 -
4438
     mean_absolute_error: 2.0905 - val_loss
       12.6781 - val_mean_absolute_error: 2
      1678
4439 Epoch 1997/20000
     - 0s - loss: 6.0875 -
4440
     mean_absolute_error: 1.8371 - val_loss
     : 12.6702 - val_mean_absolute_error: 2
     1673
```

```
File - boston01
4441 Epoch 1998/20000
      - 0s - loss: 9.0279 -
4442
     mean_absolute_error: 2.0147 - val_loss
       12.6589 - val_mean_absolute_error: 2
      1669
4443 Epoch 1999/20000
      - 0s - loss: 7.5613 -
4444
     mean_absolute_error: 1.9528 - val_loss
       12.6574 - val_mean_absolute_error: 2
      . 1672
4445 Epoch 2000/20000
4446 - 0s - loss: 6.8534
     mean_absolute_error: 1.9478 - val_loss
       12.6684 - val_mean_absolute_error: 2
      . 1677
4447
4448 Epoch 02000: saving model to ./model/
     model_best.h5
4449 Epoch 2001/20000
      - 0s - loss: 7.2158 -
4450
     mean_absolute_error: 2.0146 - val_loss
       12.6709 - val_mean_absolute_error:
      1685
4451 Epoch 2002/20000
```

```
- 0s - loss: 9.0179 -
4452
     mean_absolute_error: 2.1086 - val_loss
       12.6700 - val_mean_absolute_error: 2
     1685
4453 Epoch 2003/20000
     - 0s - loss: 6.9484 -
4454 l
     mean_absolute_error: 1.9308 - val_loss
       12.6688 - val_mean_absolute_error: 2
     1683
4455 Epoch 2004/20000
4456 - 0s - loss: 8.7341 -
     mean_absolute_error: 2.1003 - val_loss
       12.6627 - val_mean_absolute_error: 2
     1682
4457 Epoch 2005/20000
     - 0s - Loss: 8.1667 -
4458
     mean_absolute_error: 2.1156 - val loss
       12.6641 - val_mean_absolute_error: 2
      1681
4459 Epoch 2006/20000
     - 0s - loss: 7.6928 -
4460
     mean_absolute_error: 1.9581 - val_loss
     12.6668 - val_mean_absolute_error: 2
     1683
```

```
File - boston01
4461 Epoch 2007/20000
      - 0s - loss: 8.4271 -
4462
     mean_absolute_error: 2.1639 - val_loss
       12.6597 - val_mean_absolute_error: 2
      1680
4463 Epoch 2008/20000
      - 0s - loss: 8.1508 -
4464
     mean_absolute_error: 2.0316 - val_loss
       12.6610 - val_mean_absolute_error: 2
      . 1680
4465 Epoch 2009/20000
4466 - 0s - loss: 8.3174 -
     mean_absolute_error: 2.0561 - val_loss
       12.6677 - val_mean_absolute_error: 2
      1684
4467 Epoch 2010/20000
      - 0s - loss: 7.4890 -
4468
     mean_absolute_error: 2.0261 - val_loss
       12.6699 - val_mean_absolute_error: 2
      1686
4469
4470 Epoch 02010: saving model to ./model/
     model_best.h5
4471 Epoch 2011/20000
```

```
- 0s - loss: 8.9609 -
4472
     mean_absolute_error: 2.0838 - val_loss
       12.6703 - val_mean_absolute_error: 2
      1688
4473 Epoch 2012/20000
4474 - 0s - loss: 7.3979 -
     mean_absolute_error: 1.9978 - val_loss
       12.6645 - val_mean_absolute_error: 2
     1689
4475 Epoch 2013/20000
4476 - 0s - loss: 8.1751 -
     mean_absolute_error: 2.0155 - val_loss
      12.6593 - val_mean_absolute_error: 2
     1687
4477 Epoch 2014/20000
     - 0s - loss: 9.3388 -
4478
     mean_absolute_error: 2.0250 - val_loss
       12.6589 - val_mean_absolute_error: 2
     1685
4479 Epoch 2015/20000
     - 0s - loss: 7.5487 -
4480
     mean_absolute_error: 1.9876 - val_loss
     12.6506 - val_mean_absolute_error: 2
     1686
```

```
File - boston01
4481 Epoch 2016/20000
      - 0s - loss: 7.0463 -
4482
     mean_absolute_error: 1.9311 - val_loss
       12.6463 - val_mean_absolute_error: 2
      1687
4483 Epoch 2017/20000
     - 0s - loss: 6.7977
4484
     mean_absolute_error: 1.9127 - val_loss
       12.6493 - val_mean_absolute_error: 2
      . 1687
4485 Epoch 2018/20000
     - 0s - loss: 7.7377
4486
     mean_absolute_error: 1.9997 - val_loss
       12.6581 - val_mean_absolute_error: 2
      1691
4487 Epoch 2019/20000
     - 0s - loss: 9.4381
4488
     mean_absolute_error: 2.1517 - val_loss
       12.6529 - val_mean_absolute_error: 2
      1689
4489 Epoch 2020/20000
4490 - 0s - loss: 6.7501
     mean_absolute_error: 1.8428 - val_loss
      12.6562 - val_mean_absolute_error: 2
```

```
File - boston01
4490 . 1696
4491
4492 Epoch 02020: saving model to ./model/
     model_best.h5
4493 Epoch 2021/20000
4494 - 0s - loss: 6.3095 -
     mean_absolute_error: 1.8594 - val_loss
       12.6530 - val_mean_absolute_error:
      1696
4495 Epoch 2022/20000
4496 - 0s - loss: 7.5978 -
     mean_absolute_error: 1.9919 - val_loss
       12.6537 - val_mean_absolute_error: 2
      1696
4497 Epoch 2023/20000
      - 0s - loss: 7.7771 -
4498
     mean_absolute_error: 2.0280 - val_loss
       12.6591 - val_mean_absolute_error: 2
      1701
4499 Epoch 2024/20000
      - 0s - loss: 8.0584 -
4500
     mean_absolute_error: 1.9608 - val_loss
     : 12.6616 - val_mean_absolute_error: 2
      1697
```

mean_absolute_error: 2.1754 - val_loss : 12.6722 - val_mean_absolute_error: 2

```
File - boston01
4510 . 1696
4511 Epoch 2030/20000
4512 - 0s - loss: 7.4792
     mean_absolute_error: 2.0038 - val_loss
       12.6801 - val_mean_absolute_error: 2
      1707
4513
4514 Epoch 02030: saving model to ./model/
     model_best.h5
4515 Epoch 2031/20000
4516 - 0s - loss: 7.7943 -
     mean_absolute_error: 1.9874 - val_loss
       12.6811 - val_mean_absolute_error: 2
      1706
4517 Epoch 2032/20000
      - 0s - loss: 6.8100 -
4518
     mean_absolute_error: 1.8831 - val_loss
       12.6813 - val_mean_absolute_error: 2
      1706
4519 Epoch 2033/20000
4520
      - 0s - loss: 8.1562 -
     mean_absolute_error: 2.1097 - val_loss
     : 12.6823 - val_mean_absolute_error: 2
      1709
```

mean_absolute_error: 2.0888 - val_loss

12.7019 - val_mean_absolute_error: 2

```
File - boston01
4530 . 1721
4531 Epoch 2039/20000
      - 0s - loss: 6.6066
4532
     mean_absolute_error: 1.8489 - val_loss
       12.7044 - val_mean_absolute_error: 2
      1724
4533 Epoch 2040/20000
4534 - 0s - loss: 7.4770 ·
     mean_absolute_error: 2.0068 - val_loss
      12.7168 - val_mean_absolute_error:
      . 1737
4535
4536 Epoch 02040: saving model to ./model/
     model best.h5
4537 Epoch 2041/20000
      - 0s - loss: 6.9801 -
4538
     mean_absolute_error: 1.8559 - val_loss
       12.7164 - val_mean_absolute_error: 2
      1735
4539 Epoch 2042/20000
      - 0s - loss: 6.5358 -
4540
     mean_absolute_error: 1.8792 - val_loss
     : 12.7134 - val_mean_absolute_error: 2
      1729
```

12.6979 - val_mean_absolute_error: 2

```
File - boston01
4550 . 1719
4551 Epoch 2048/20000
      - 0s - loss: 7.1556
4552
     mean_absolute_error: 1.8497 - val_loss
       12.7042 - val_mean_absolute_error: 2
      1725
4553 Epoch 2049/20000
4554 - 0s - loss: 7.7456 -
     mean_absolute_error: 2.0369 - val_loss
       12.7070 - val_mean_absolute_error:
      1730
4555 Epoch 2050/20000
4556 - 0s - loss: 7.9015 -
     mean_absolute_error: 1.9640 - val_loss
       12.7114 - val_mean_absolute_error:
      1734
4557
4558 Epoch 02050: saving model to ./model/
     model_best.h5
4559 Epoch 2051/20000
      - 0s - loss: 8.5508 -
4560
     mean_absolute_error: 2.0983 - val_loss
      12.7087 - val_mean_absolute_error: 2
      1733
```

mean_absolute_error: 1.9197 - val_loss

12.6880 - val_mean_absolute_error: 2

```
File - boston01
4570 . 1718
4571 Epoch 2057/20000
4572 - 0s - loss: 10.3711 -
     mean_absolute_error: 2.2573 - val_loss
       12.6878 - val_mean_absolute_error: 2
      1720
4573 Epoch 2058/20000
4574 - 0s - loss: 7.7462 -
     mean_absolute_error: 2.0163 - val_loss
       12.6891 - val_mean_absolute_error:
      1719
4575 Epoch 2059/20000
4576 - 0s - loss: 6.5299 -
     mean_absolute_error: 1.8874 - val_loss
       12.6885 - val_mean_absolute_error:
      1717
4577 Epoch 2060/20000
4578 - 0s - loss: 7.6133 -
     mean_absolute_error: 1.9745 - val_loss
     : 12.6829 - val_mean_absolute_error:
      1712
4579
     Epoch 02060: saving model to ./model/
4580
     model_best.h5
```

```
File - boston01
    Epoch 2061/20000
4581
      - 0s - loss: 7.6231 -
4582
     mean_absolute_error: 1.9908 - val_loss
       12.6828 - val_mean_absolute_error: 2
      1714
4583 Epoch 2062/20000
      - 0s - loss: 7.3788 -
4584
     mean_absolute_error: 2.0321 - val_loss
       12.6902 - val_mean_absolute_error: 2
      1719
4585 Epoch 2063/20000
      - 0s - loss: 7.4083
4586 l
     mean_absolute_error: 1.9233 - val_loss
       12.7006 - val_mean_absolute_error: 2
      1725
4587 Epoch 2064/20000
      - 0s - loss: 7.2401 -
4588
     mean_absolute_error: 2.0305 - val_loss
       12.6983 - val_mean_absolute_error: 2
      1723
4589 Epoch 2065/20000
4590 - 0s - loss: 7.3237
     mean_absolute_error: 1.9285 - val_loss
      12.7019 - val_mean_absolute_error: 2
```

```
File - boston01
4590 . 1725
4591
4592 Epoch 02065: ReduceLROnPlateau
     reducing learning rate to 1.
     00000006569e-06.
4593 Epoch 2066/20000
      - 0s - loss: 9.9429 -
4594
     mean_absolute_error: 2.1879 - val_loss
       12.7025 - val_mean_absolute_error: 2
      . 1726
4595 Epoch 2067/20000
      - 0s - loss: 7.2592 -
4596 l
     mean_absolute_error: 1.8886 - val_loss
       12.7025 - val_mean_absolute_error: 2
      1726
4597 Epoch 2068/20000
      - 0s - loss: 8.5913 -
4598
     mean_absolute_error: 2.0420 - val_loss
       12.7021 - val_mean_absolute_error: 2
      1726
4599 Epoch 2069/20000
4600 - 0s - loss: 8.2152
     mean_absolute_error: 2.0812 - val_loss
       12.7021 - val_mean_absolute_error: 2
```

```
File - boston01
4600 . 1726
4601 Epoch 2070/20000
4602 - 0s - loss: 7.9698
     mean_absolute_error: 1.9550 - val_loss
       12.7018 - val_mean_absolute_error: 2
      1726
4603
4604 Epoch 02070: saving model to ./model/
     model_best.h5
4605 Epoch 2071/20000
4606 - 0s - loss: 6.3541 -
     mean_absolute_error: 1.8447 - val_loss
       12.7028 - val_mean_absolute_error:
      1726
4607 Epoch 2072/20000
      - 0s - loss: 8.6912 -
4608
     mean_absolute_error: 2.1737 - val_loss
       12.7021 - val_mean_absolute_error: 2
      1725
4609 Epoch 2073/20000
4610 - 0s - loss: 10.3983 -
     mean_absolute_error: 2.2384 - val_loss
     : 12.7014 - val_mean_absolute_error: 2
      1725
```

4620 - 0s - loss: 6.8250 - mean_absolute_error: 1.8583 - val_loss : 12.7014 - val_mean_absolute_error: 2

```
File - boston01
4620 . 1725
4621 Epoch 2079/20000
4622 - 0s - loss: 7.0517
     mean_absolute_error: 2.0170 - val_loss
       12.7012 - val_mean_absolute_error: 2
      1724
4623 Epoch 2080/20000
4624 - 0s - loss: 7.6497 ·
     mean_absolute_error: 2.0020 - val_loss
       12.7015 - val_mean_absolute_error:
      . 1725
4625
4626 Epoch 02080: saving model to ./model/
     model best.h5
4627 Epoch 2081/20000
      - 0s - loss: 6.1481
4628
     mean_absolute_error: 1.8067 - val loss
       12.7020 - val_mean_absolute_error: 2
      1726
4629 Epoch 2082/20000
4630
      - 0s - loss: 7.2782 -
     mean_absolute_error: 1.9834 - val_loss
     : 12.7014 - val_mean_absolute_error: 2
      1725
```

```
File - boston01
4631 Epoch 2083/20000
      - 0s - loss: 9.2152 -
4632
     mean_absolute_error: 2.1642 - val_loss
       12.7027 - val_mean_absolute_error: 2
      1726
4633 Epoch 2084/20000
      - 0s - loss: 8.2480 -
4634
     mean_absolute_error: 2.0035 - val_loss
       12.7030 - val_mean_absolute_error: 2
      . 1726
4635 Epoch 2085/20000
4636 - 0s - loss: 7.4375 -
     mean_absolute_error: 1.9589 - val_loss
       12.7042 - val_mean_absolute_error: 2
      . 1727
4637 Epoch 2086/20000
      - 0s - loss: 6.2852 -
4638
     mean_absolute_error: 1.8508 - val_loss
       12.7044 - val_mean_absolute_error: 2
      1727
4639 Epoch 2087/20000
4640 - 0s - loss: 7.4533
     mean_absolute_error: 1.9237 - val_loss
      12.7050 - val_mean_absolute_error: 2
```

```
File - boston01
4640 . 1728
4641 Epoch 2088/20000
4642 - 0s - loss: 6.6287
     mean_absolute_error: 1.9367 - val_loss
       12.7052 - val_mean_absolute_error: 2
      1728
4643 Epoch 2089/20000
4644 - 0s - Loss: 6.8734 -
     mean_absolute_error: 1.9472 - val_loss
       12.7056 - val_mean_absolute_error:
      1728
4645 Epoch 2090/20000
4646 - 0s - loss: 7.7686 -
     mean_absolute_error: 1.9929 - val_loss
       12.7057 - val_mean_absolute_error:
      . 1728
4647
4648 Epoch 02090: saving model to ./model/
     model_best.h5
4649 Epoch 2091/20000
      - 0s - loss: 6.7560 -
4650 l
     mean_absolute_error: 1.9379 - val_loss
      12.7061 - val_mean_absolute_error: 2
      1729
```

12.7076 - val_mean_absolute_error: 2

```
File - boston01
4660 . 1730
4661 Epoch 2097/20000
      - 0s - loss: 8.9603
4662
     mean_absolute_error: 2.0967 - val_loss
       12.7076 - val_mean_absolute_error: 2
      1731
4663 Epoch 2098/20000
4664 - 0s - loss: 7.6452 ·
     mean_absolute_error: 1.9550 - val_loss
       12.7076 - val_mean_absolute_error:
      1731
4665 Epoch 2099/20000
     - 0s - loss: 8.2795 -
4666
     mean_absolute_error: 1.9248 - val_loss
       12.7080 - val_mean_absolute_error:
      1731
4667 Epoch 2100/20000
      - 0s - loss: 7.3408 -
4668
     mean_absolute_error: 1.9565 - val_loss
       12.7082 - val_mean_absolute_error:
      1731
4669
     Epoch 02100: saving model to ./model/
4670
     model_best.h5
```

mean_absolute_error: 2.0451 - val_loss

12.7081 - val_mean_absolute_error: 2

```
File - boston01
4680 . 1731
4681 Epoch 2106/20000
      - 0s - loss: 7.8266
4682
     mean_absolute_error: 1.9162 - val_loss
       12.7081 - val_mean_absolute_error: 2
      1732
4683 Epoch 2107/20000
4684 - 0s - loss: 7.4664 -
     mean_absolute_error: 1.9432 - val_loss
       12.7090 - val_mean_absolute_error:
      1732
4685 Epoch 2108/20000
4686
      - 0s - loss: 7.7385 -
     mean_absolute_error: 2.1272 - val_loss
       12.7100 - val_mean_absolute_error:
      1732
4687 Epoch 2109/20000
      - 0s - loss: 7.2869 -
4688
     mean_absolute_error: 1.9635 - val_loss
       12.7106 - val_mean_absolute_error:
      1733
4689 Epoch 2110/20000
     - 0s - loss: 7.7838 -
4690
     mean_absolute_error: 1.9580 - val_loss
```

```
12.7097 - val_mean_absolute_error: 2
4690
     1732
4691
4692 Epoch 02110: saving model to ./model/
     model_best.h5
4693 Epoch 2111/20000
     - 0s - loss: 6.6014 -
4694
     mean_absolute_error: 1.8506 - val_loss
       12.7087 - val_mean_absolute_error: 2
     . 1732
4695 Epoch 2112/20000
4696 - 0s - loss: 7.1414 -
     mean_absolute_error: 1.9457 - val_loss
       12.7088 - val_mean_absolute_error: 2
     1732
4697 Epoch 2113/20000
     - 0s - loss: 6.5761 -
4698
     mean_absolute_error: 1.9135 - val_loss
       12.7083 - val_mean_absolute_error: 2
     1732
4699 Epoch 2114/20000
4700 - 0s - loss: 7.5542
     mean_absolute_error: 1.9285 - val_loss
      12.7077 - val_mean_absolute_error: 2
```

```
File - boston01
4700 . 1732
4701 Epoch 2115/20000
4702 - 0s - loss: 7.5063
     mean_absolute_error: 1.9645 - val_loss
       12.7081 - val_mean_absolute_error: 2
      1732
4703 Epoch 2116/20000
4704 - 0s - loss: 7.9587
     mean_absolute_error: 2.0307 - val_loss
       12.7093 - val_mean_absolute_error:
      1733
4705 Epoch 2117/20000
4706 - 0s - loss: 7.5953 -
     mean_absolute_error: 1.9834 - val_loss
       12.7093 - val_mean_absolute_error: 2
      1733
4707 Epoch 2118/20000
4708 - 0s - loss: 6.6424 -
     mean_absolute_error: 1.8804 - val_loss
       12.7087 - val_mean_absolute_error:
      1733
4709 Epoch 2119/20000
4710 - 0s - loss: 6.7648 -
     mean_absolute_error: 1.8958 - val_loss
```

```
12.7081 - val_mean_absolute_error: 2
4710
     1733
4711 Epoch 2120/20000
     - 0s - loss: 8.2088 -
4712
     mean_absolute_error: 2.0815 - val_loss
      12.7071 - val_mean_absolute_error: 2
     . 1732
4713
4714 Epoch 02120: saving model to ./model/
     model best.h5
4715 Epoch 2121/20000
4716 - 0s - loss: 6.2917 -
     mean_absolute_error: 1.9176 - val_loss
       12.7071 - val_mean_absolute_error: 2
     1732
4717 Epoch 2122/20000
4718 - 0s - loss: 8.4328 -
     mean_absolute_error: 2.1057 - val_loss
      12.7064 - val_mean_absolute_error: 2
     1731
4719 Epoch 2123/20000
4720 - 0s - loss: 7.4546 -
     mean_absolute_error: 1.9638 - val_loss
     12.7070 - val_mean_absolute_error: 2
```

```
File - boston01
4720 . 1732
4721 Epoch 2124/20000
4722 - 0s - loss: 9.0287
     mean_absolute_error: 2.1264 - val_loss
       12.7069 - val_mean_absolute_error: 2
      1732
4723 Epoch 2125/20000
4724 - 0s - Loss: 6.7780 -
     mean_absolute_error: 1.8910 - val_loss
       12.7078 - val_mean_absolute_error:
      1732
4725 Epoch 2126/20000
4726 - 0s - loss: 8.0189 -
     mean_absolute_error: 2.0276 - val_loss
       12.7082 - val_mean_absolute_error: 2
      1733
4727 Epoch 2127/20000
4728 - 0s - loss: 7.9901 -
     mean_absolute_error: 2.1187 - val_loss
       12.7084 - val_mean_absolute_error:
      1733
4729 Epoch 2128/20000
4730 - 0s - loss: 7.8224 -
     mean_absolute_error: 1.9703 - val_loss
```

```
12.7083 - val_mean_absolute_error: 2
4730
     1732
4731 Epoch 2129/20000
     - 0s - loss: 8.0737 -
4732
     mean_absolute_error: 2.0325 - val_loss
      12.7087 - val_mean_absolute_error: 2
     1733
4733 Epoch 2130/20000
4734
     - 0s - loss: 8.4718 -
     mean_absolute_error: 2.1532 - val_loss
       12.7097 - val_mean_absolute_error: 2
     1733
4735
    Epoch 02130: saving model to ./model/
4736
     model_best.h5
4737 Epoch 2131/20000
     - 0s - loss: 5.7262 -
4738
     mean_absolute_error: 1.8077 - val_loss
       12.7096 - val_mean_absolute_error: 2
     1733
4739 Epoch 2132/20000
4740 - 0s - Loss: 6.3588
     mean_absolute_error: 1.8880 - val_loss
      12.7101 - val_mean_absolute_error: 2
```

```
File - boston01
4740 . 1734
4741 Epoch 2133/20000
4742 - 0s - loss: 9.3138
     mean_absolute_error: 2.0226 - val_loss
       12.7107 - val_mean_absolute_error: 2
      1734
4743 Epoch 2134/20000
4744 - 0s - Loss: 7.1573 -
     mean_absolute_error: 1.8947 - val_loss
       12.7102 - val_mean_absolute_error:
      1733
4745 Epoch 2135/20000
4746 - 0s - loss: 6.5805 -
     mean_absolute_error: 1.9146 - val_loss
       12.7101 - val_mean_absolute_error:
      1733
4747 Epoch 2136/20000
4748 - 0s - loss: 7.8244 -
     mean_absolute_error: 2.0024 - val_loss
       12.7107 - val_mean_absolute_error:
      1734
4749 Epoch 2137/20000
4750 - 0s - loss: 7.3080 -
     mean_absolute_error: 1.9314 - val_loss
```

```
12.7106 - val_mean_absolute_error: 2
4750
     1733
4751 Epoch 2138/20000
     - 0s - loss: 7.4969 -
4752 l
     mean_absolute_error: 1.9637 - val_loss
      12.7103 - val_mean_absolute_error: 2
     1733
4753 Epoch 2139/20000
4754
     - 0s - loss: 6.0272 -
     mean_absolute_error: 1.8979 - val_loss
       12.7096 - val_mean_absolute_error: 2
      1733
4755 Epoch 2140/20000
     - Os - loss: 8.5422 -
4756
     mean_absolute_error: 2.0881 - val_loss
      12.7099 - val_mean_absolute_error: 2
     . 1732
4757
4758 Epoch 02140: saving model to ./model/
     model_best.h5
4759 Epoch 2141/20000
4760 - 0s - loss: 7.2015
     mean_absolute_error: 1.9339 - val_loss
      12.7096 - val_mean_absolute_error: 2
```

```
File - boston01
4760 . 1733
4761 Epoch 2142/20000
4762 - 0s - loss: 7.5973
     mean_absolute_error: 1.9523 - val_loss
       12.7094 - val_mean_absolute_error: 2
      1733
4763 Epoch 2143/20000
4764 - 0s - loss: 9.1306 -
     mean_absolute_error: 2.1696 - val_loss
       12.7081 - val_mean_absolute_error:
      1731
4765 Epoch 2144/20000
4766 - 0s - loss: 7.2013 -
     mean_absolute_error: 1.9561 - val_loss
       12.7084 - val_mean_absolute_error:
      1731
4767 Epoch 2145/20000
     - 0s - loss: 7.3842 -
4768
     mean_absolute_error: 1.9241 - val_loss
       12.7088 - val_mean_absolute_error:
      1732
4769 Epoch 2146/20000
4770 - 0s - loss: 5.9125 -
     mean_absolute_error: 1.8382 - val_l<u>oss</u>
```

```
4770 : 12.7086 - val_mean_absolute_error: 2
     1731
4771 Epoch 2147/20000
4772 - 0s - loss: 6.6567 -
     mean_absolute_error: 1.9315 - val_loss
       12.7078 - val_mean_absolute_error: 2
     1731
4773 Epoch 2148/20000
4774 - 0s - loss: 7.0496 -
     mean_absolute_error: 1.9692 - val_loss
       12.7089 - val_mean_absolute_error: 2
     1731
4775 Epoch 2149/20000
4776 - 0s - loss: 7.3743 -
     mean_absolute_error: 2.0045 - val_loss
       12.7088 - val_mean_absolute_error: 2
     1731
4777 Epoch 2150/20000
    - 0s - loss: 6.8809 -
4778
     mean_absolute_error: 1.8996 - val_loss
       12.7087 - val_mean_absolute_error: 2
     . 1730
4779
    Epoch 02150: saving model to ./model/
4780
```

```
File - boston01
4780 model_best.h5
4781 Epoch 2151/20000
4782 - 0s - loss: 7.4912
     mean_absolute_error: 2.0008 - val_loss
       12.7097 - val_mean_absolute_error: 2
      1731
4783 Epoch 2152/20000
4784 - 0s - Loss: 8,4171
     mean_absolute_error: 2.0679 - val_loss
       12.7100 - val_mean_absolute_error:
      1731
4785 Epoch 2153/20000
4786 - 0s - loss: 7.8708 -
     mean_absolute_error: 2.0171 - val_loss
       12.7102 - val_mean_absolute_error:
      1732
4787 Epoch 2154/20000
     - 0s - loss: 10.1596 -
4788
     mean_absolute_error: 2.1562 - val_loss
       12.7102 - val_mean_absolute_error:
      1732
4789 Epoch 2155/20000
4790 - 0s - loss: 7.6478 -
     mean_absolute_error: 1.9985 - val_l<u>oss</u>
```

```
12.7100 - val_mean_absolute_error: 2
4790
     1732
4791 Epoch 2156/20000
     - 0s - loss: 7.2736 -
4792
     mean_absolute_error: 1.9970 - val_loss
       12.7109 - val_mean_absolute_error: 2
     1733
4793 Epoch 2157/20000
4794
     - 0s - loss: 6.9487 -
     mean_absolute_error: 1.9279 - val_loss
       12.7115 - val_mean_absolute_error: 2
      1733
4795 Epoch 2158/20000
     - Os - loss: 7.9594 -
4796
     mean_absolute_error: 2.0165 - val_loss
       12.7106 - val_mean_absolute_error: 2
     . 1733
4797 Epoch 2159/20000
     - 0s - Loss: 8.4415 -
4798
     mean_absolute_error: 2.1493 - val_loss
       12.7117 - val_mean_absolute_error: 2
     1734
4799 Epoch 2160/20000
4800 - 0s - loss: 8.3752
```

```
4800 mean_absolute_error: 2.0940 - val_loss
       12.7105 - val_mean_absolute_error: 2
     1733
4801
4802 Epoch 02160: saving model to ./model/
     model_best.h5
4803 Epoch 2161/20000
4804 - 0s - loss: 7.8427 -
     mean_absolute_error: 2.0112 - val_loss
       12.7110 - val_mean_absolute_error:
     1733
4805 Epoch 2162/20000
4806 - 0s - loss: 6.3597 -
     mean_absolute_error: 1.9288 - val_loss
       12.7114 - val_mean_absolute_error: 2
      1734
4807 Epoch 2163/20000
     - 0s - loss: 8.9409 -
4808
     mean_absolute_error: 2.2332 - val_loss
       12.7105 - val_mean_absolute_error:
     1733
4809 Epoch 2164/20000
4810 - 0s - loss: 9.2122 -
     mean_absolute_error: 2.0499 - val_loss
```

```
12.7107 - val_mean_absolute_error: 2
4810
     1733
4811 Epoch 2165/20000
     - Os - loss: 7.7982 -
4812 l
     mean_absolute_error: 1.9682 - val_loss
       12.7116 - val_mean_absolute_error: 2
      1734
4813 Epoch 2166/20000
     - 0s - loss: 7.8724 -
4814
     mean_absolute_error: 2.0581 - val_l<u>oss</u>
       12.7119 - val_mean_absolute_error: 2
      1734
4815 Epoch 2167/20000
     - 0s - loss: 7.3188 -
4816
     mean_absolute_error: 1.9945 - val_loss
       12.7115 - val_mean_absolute_error: 2
     1734
4817 Epoch 2168/20000
     - 0s - loss: 8.0903 -
4818
     mean_absolute_error: 2.1042 - val_loss
       12.7117 - val_mean_absolute_error: 2
      1734
4819 Epoch 2169/20000
4820 - 0s - loss: 8.2307
```

```
4820 mean_absolute_error: 2.0710 - val_loss
       12.7115 - val_mean_absolute_error: 2
      1734
4821 Epoch 2170/20000
     - 0s - loss: 7.7863 -
4822
     mean_absolute_error: 2.0876 - val_loss
       12.7126 - val_mean_absolute_error: 2
     1735
4823
4824 Epoch 02170: saving model to ./model/
     model_best.h5
4825 Epoch 2171/20000
4826 - 0s - loss: 8.1817 -
     mean_absolute_error: 1.9448 - val_loss
       12.7125 - val_mean_absolute_error: 2
     1735
4827 Epoch 2172/20000
     - 0s - loss: 8.4195 -
4828
     mean_absolute_error: 2.0782 - val_loss
       12.7136 - val_mean_absolute_error:
     1736
4829 Epoch 2173/20000
4830 - 0s - loss: 7.5348 -
     mean_absolute_error: 1.9549 - val_loss
```

```
12.7142 - val_mean_absolute_error: 2
4830
     1736
4831 Epoch 2174/20000
     - 0s - loss: 6.4882 -
4832
     mean_absolute_error: 1.8830 - val_loss
      12.7149 - val_mean_absolute_error: 2
     1737
4833 Epoch 2175/20000
     - 0s - loss: 6.8568 -
4834
     mean_absolute_error: 1.8497 - val_loss
       12.7148 - val_mean_absolute_error: 2
     1736
4835 Epoch 2176/20000
     - 0s - loss: 6.7292 -
4836
     mean_absolute_error: 1.8720 - val_loss
      12.7163 - val_mean_absolute_error: 2
     1737
4837 Epoch 2177/20000
     - 0s - loss: 6.6093
4838
     mean_absolute_error: 1.9053 - val_loss
       12.7171 - val_mean_absolute_error: 2
     1738
4839 Epoch 2178/20000
4840 - 0s - loss: 7.5473
```

```
4840 mean_absolute_error: 1.9099 - val_loss
       12.7168 - val_mean_absolute_error: 2
     1737
4841 Epoch 2179/20000
4842 - 0s - Loss: 6.1154 -
     mean_absolute_error: 1.8533 - val_loss
       12.7169 - val_mean_absolute_error: 2
     1738
4843 Epoch 2180/20000
4844 - 0s - loss: 7.3337
     mean_absolute_error: 2.0392 - val_loss
       12.7164 - val_mean_absolute_error: 2
     1738
4845
4846 Epoch 02180: saving model to ./model/
     model_best.h5
4847 Epoch 2181/20000
4848 - 0s - loss: 8.0926 -
     mean_absolute_error: 2.0300 - val_loss
       12.7161 - val_mean_absolute_error:
     1738
4849 Epoch 2182/20000
4850 - 0s - loss: 6.6699 -
     mean_absolute_error: 1.8959 - val_loss
```

```
12.7166 - val_mean_absolute_error: 2
4850
     1738
4851 Epoch 2183/20000
     - 0s - loss: 7.6901 -
4852 l
     mean_absolute_error: 1.9298 - val_loss
       12.7154 - val_mean_absolute_error: 2
     1737
4853 Epoch 2184/20000
4854
     - 0s - loss: 6.3510 -
     mean_absolute_error: 1.9321 - val_loss
       12.7162 - val_mean_absolute_error: 2
     1738
4855 Epoch 2185/20000
     - 0s - loss: 7.9005 -
4856
     mean_absolute_error: 2.0487 - val_loss
       12.7163 - val_mean_absolute_error: 2
     . 1738
4857 Epoch 2186/20000
     - 0s - loss: 10.0467 -
4858
     mean_absolute_error: 2.2189 - val_loss
       12.7162 - val_mean_absolute_error: 2
      1739
4859 Epoch 2187/20000
4860 - 0s - loss: 7.3156 -
```

```
4860 mean_absolute_error: 1.9975 - val_loss
       12.7164 - val_mean_absolute_error: 2
     1738
4861 Epoch 2188/20000
     - 0s - loss: 6.4388 -
4862
     mean_absolute_error: 1.8285 - val_loss
       12.7155 - val_mean_absolute_error: 2
     1738
4863 Epoch 2189/20000
4864 - 0s - loss: 7.7670 -
     mean_absolute_error: 2.0002 - val_loss
       12.7153 - val_mean_absolute_error: 2
     1738
4865 Epoch 2190/20000
     - 0s - loss: 8.7055
4866
     mean_absolute_error: 2.1143 - val_loss
       12.7151 - val_mean_absolute_error:
     1738
4867
    Epoch 02190: saving model to ./model/
4868
     model_best.h5
4869 Epoch 2191/20000
4870 - 0s - loss: 7.9004 -
     mean_absolute_error: 2.0074 - val_l<u>oss</u>
```

```
12.7160 - val_mean_absolute_error: 2
4870
     1739
4871 Epoch 2192/20000
4872 - 0s - loss: 7.5491 -
     mean_absolute_error: 2.0648 - val_loss
      12.7166 - val_mean_absolute_error: 2
      1739
4873 Epoch 2193/20000
     - 0s - loss: 8.7789 -
4874
     mean_absolute_error: 2.1671 - val_loss
       12.7174 - val_mean_absolute_error: 2
     1739
4875 Epoch 2194/20000
     - 0s - loss: 8.8577 -
4876
     mean_absolute_error: 2.1835 - val_loss
      12.7173 - val_mean_absolute_error: 2
     1739
4877 Epoch 2195/20000
     - 0s - loss: 6.3377 -
4878
     mean_absolute_error: 1.8313 - val_loss
       12.7161 - val_mean_absolute_error: 2
     1739
4879 Epoch 2196/20000
4880 - 0s - loss: 6.5471
```

```
File - boston01
```

```
4880 mean_absolute_error: 1.8649 - val_loss
       12.7152 - val_mean_absolute_error: 2
     1738
4881 Epoch 2197/20000
     - 0s - loss: 6.2774 -
4882
     mean_absolute_error: 1.8790 - val_loss
       12.7148 - val_mean_absolute_error: 2
     1738
4883 Epoch 2198/20000
4884 - 0s - loss: 8.4299 -
     mean_absolute_error: 2.1228 - val_loss
       12.7145 - val_mean_absolute_error: 2
     1737
4885 Epoch 2199/20000
    - 0s - loss: 7.1117 -
4886
     mean_absolute_error: 1.9385 - val_loss
       12.7147 - val_mean_absolute_error:
     1738
4887 Epoch 2200/20000
     - 0s - loss: 9.4187 -
4888
     mean_absolute_error: 2.2283 - val_loss
      12.7152 - val_mean_absolute_error:
     . 1738
4889
```

Page 490 of 1152

```
4890 Epoch 02200: saving model to ./model/
     model best.h5
4891 Epoch 2201/20000
4892 - 0s - loss: 7.3042 -
     mean_absolute_error: 1.9595 - val_loss
       12.7156 - val_mean_absolute_error: 2
     1738
4893 Epoch 2202/20000
     - 0s - loss: 7.1194 -
4894
     mean_absolute_error: 1.8737 - val_loss
       12.7147 - val_mean_absolute_error: 2
     1738
4895 Epoch 2203/20000
     - Os - loss: 8.7977 -
4896
     mean_absolute_error: 2.1109 - val_loss
       12.7149 - val_mean_absolute_error: 2
     . 1738
4897 Epoch 2204/20000
     - 0s - loss: 9.3174 -
4898
     mean_absolute_error: 2.1303 - val_loss
       12.7142 - val_mean_absolute_error: 2
     1737
4899 Epoch 2205/20000
4900 - 0s - loss: 7.0846 -
```

```
4900 mean_absolute_error: 1.9840 - val_loss
       12.7132 - val_mean_absolute_error: 2
     1736
4901 Epoch 2206/20000
4902 - 0s - loss: 7.9643 -
     mean_absolute_error: 1.9767 - val_loss
       12.7127 - val_mean_absolute_error: 2
     . 1736
4903 Epoch 2207/20000
4904 - 0s - loss: 7.8572 -
     mean_absolute_error: 2.0452 - val_loss
       12.7134 - val_mean_absolute_error: 2
     1737
4905 Epoch 2208/20000
4906 - 0s - loss: 8.0132 -
     mean_absolute_error: 1.9665 - val_loss
       12.7145 - val_mean_absolute_error: 2
     1738
4907 Epoch 2209/20000
     - 0s - loss: 7.6147 -
4908
     mean_absolute_error: 2.0202 - val_loss
       12.7132 - val_mean_absolute_error:
     1737
4909 Epoch 2210/20000
```

#918 - 0s - Foss: 5.7030 - mean_absolute_error: 1.7530 - val_loss : 12.7130 - val_mean_absolute_error: 2 .1736

4919 Epoch 2214/20000

4920 - 0s - loss: 9.3837 -

```
4920 mean_absolute_error: 2.1758 - val_loss
       12.7133 - val_mean_absolute_error: 2
     1737
4921 Epoch 2215/20000
4922 - 0s - loss: 7.4927 -
     mean_absolute_error: 1.9717 - val_loss
       12.7132 - val_mean_absolute_error: 2
     . 1737
4923 Epoch 2216/20000
4924 - 0s - loss: 7.2575
     mean_absolute_error: 1.9373 - val_loss
       12.7145 - val_mean_absolute_error: 2
     1738
4925 Epoch 2217/20000
4926 - 0s - loss: 7.2621
     mean_absolute_error: 1.8650 - val_loss
      12.7139 - val_mean_absolute_error: 2
     1738
4927 Epoch 2218/20000
     - 0s - loss: 8.7641 -
4928
     mean_absolute_error: 2.1378 - val_loss
       12.7147 - val_mean_absolute_error:
     1739
4929 Epoch 2219/20000
```

mean_absolute_error: 1.9364 - val_loss 12.7159 - val_mean_absolute_error: 2 1740

4939 Epoch 2223/20000

4940 - 0s - loss: 6.3706 -

```
4940 mean_absolute_error: 1.9100 - val_loss
       12.7163 - val_mean_absolute_error: 2
     1741
4941 Epoch 2224/20000
4942 - 0s - loss: 8.0385 -
     mean_absolute_error: 2.1150 - val_loss
       12.7165 - val_mean_absolute_error: 2
     . 1740
4943 Epoch 2225/20000
4944 - 0s - loss: 8.4004
     mean_absolute_error: 2.1234 - val_loss
       12.7168 - val_mean_absolute_error: 2
     1740
4945 Epoch 2226/20000
4946 - 0s - loss: 7.8985
     mean_absolute_error: 1.9718 - val_loss
      12.7169 - val_mean_absolute_error:
     1740
4947 Epoch 2227/20000
     - 0s - loss: 7.4544 -
4948
     mean_absolute_error: 1.9618 - val_loss
       12.7173 - val_mean_absolute_error:
     1740
4949 Epoch 2228/20000
```

4957 Epoch 2231/20000
4958 - 0s - loss: 7.4827
mean_absolute_error: 1.9612 - val_loss
: 12.7165 - val_mean_absolute_error: 2
.1740

4959 Epoch 2232/20000

4960 <u>-</u> 0s - loss: 6.4961 -

```
4960 mean_absolute_error: 1.9051 - val_loss
       12.7164 - val_mean_absolute_error: 2
      1739
4961 Epoch 2233/20000
4962 - 0s - loss: 6.5204 -
     mean_absolute_error: 1.9442 - val_loss
       12.7156 - val_mean_absolute_error: 2
     1739
4963 Epoch 2234/20000
4964 - 0s - loss: 7.3072 -
     mean_absolute_error: 2.0218 - val_loss
       12.7159 - val_mean_absolute_error: 2
     1739
4965 Epoch 2235/20000
4966 - 0s - loss: 8.6079 -
     mean_absolute_error: 2.0438 - val_loss
       12.7158 - val_mean_absolute_error:
     1740
4967 Epoch 2236/20000
     - 0s - loss: 7.3155 -
4968
     mean_absolute_error: 1.9306 - val_loss
       12.7162 - val_mean_absolute_error:
      1740
4969 Epoch 2237/20000
```

```
- 0s - loss: 8.4484 -
4970
     mean_absolute_error: 2.1769 - val_loss
       12.7169 - val_mean_absolute_error:
      1740
4971 Epoch 2238/20000
     - 0s - loss: 8.3995 -
4972
     mean_absolute_error: 1.9797 - val_loss
       12.7178 - val_mean_absolute_error:
      1741
4973 Epoch 2239/20000
     - 0s - loss: 9.0258 -
4974
     mean_absolute_error: 2.1126 - val_loss
       12.7176 - val_mean_absolute_error:
      1741
4975 Epoch 2240/20000
     - 0s - loss: 7.8336 -
4976
     mean_absolute_error: 1.9744 - val loss
       12.7177 - val_mean_absolute_error: 2
     1741
4977
    Epoch 02240: saving model to ./model/
4978
     model_best.h5
4979 Epoch 2241/20000
4980 <u>- 0s - loss: 7.5137</u>
```

```
4980 mean_absolute_error: 2.0651 - val_loss
       12.7189 - val_mean_absolute_error: 2
     1742
4981 Epoch 2242/20000
4982 - 0s - loss: 6.6335 -
     mean_absolute_error: 1.8982 - val_loss
       12.7192 - val_mean_absolute_error: 2
     . 1742
4983 Epoch 2243/20000
4984 - 0s - loss: 7.3030 -
     mean_absolute_error: 1.9844 - val_loss
       12.7185 - val_mean_absolute_error: 2
     1742
4985 Epoch 2244/20000
4986 - 0s - loss: 7.0105
     mean_absolute_error: 1.9825 - val_loss
       12.7177 - val_mean_absolute_error:
     1741
4987 Epoch 2245/20000
     - 0s - loss: 6.1485 -
4988
     mean_absolute_error: 1.7988 - val_loss
       12.7180 - val_mean_absolute_error:
      1742
4989 Epoch 2246/20000
```

```
- 0s - loss: 6.6955 -
4990
     mean_absolute_error: 1.8850 - val_loss
       12.7185 - val_mean_absolute_error: 2
      1742
4991 Epoch 2247/20000
     - 0s - loss: 7.5506 -
4992
     mean_absolute_error: 1.8937 - val_loss
       12.7186 - val_mean_absolute_error: 2
      1742
4993 Epoch 2248/20000
4994 - 0s - loss: 7.2150 -
     mean_absolute_error: 1.9380 - val_loss
       12.7187 - val_mean_absolute_error: 2
     1742
4995 Epoch 2249/20000
     - 0s - Loss: 8.5923 -
4996
     mean_absolute_error: 2.1706 - val_loss
       12.7185 - val_mean_absolute_error: 2
     1742
4997 Epoch 2250/20000
     - 0s - loss: 7.0600 -
4998
     mean_absolute_error: 1.9926 - val_loss
      12.7177 - val_mean_absolute_error: 2
     1741
```

```
4999
5000 Epoch 02250: saving model to ./model/
     model_best.h5
5001 Epoch 2251/20000
5002 - 0s - loss: 7.6021 -
     mean_absolute_error: 2.0700 - val_loss
       12.7173 - val_mean_absolute_error: 2
     1741
5003 Epoch 2252/20000
5004 - 0s - loss: 7.4755 -
     mean_absolute_error: 1.9508 - val_loss
       12.7167 - val_mean_absolute_error: 2
     1741
5005 Epoch 2253/20000
5006 - 0s - loss: 7.7002 -
     mean_absolute_error: 2.0257 - val_loss
       12.7164 - val_mean_absolute_error: 2
      1741
5007 Epoch 2254/20000
    - 0s - loss: 8.4591 -
5008
     mean_absolute_error: 1.9937 - val_loss
       12.7156 - val_mean_absolute_error:
      1740
5009 Epoch 2255/20000
```

```
- 0s - loss: 6.2404 -
5010
     mean_absolute_error: 1.7936 - val_loss
       12.7152 - val_mean_absolute_error: 2
      1739
5011 Epoch 2256/20000
5012 - 0s - loss: 8.4334 -
     mean_absolute_error: 2.0620 - val_loss
       12.7162 - val_mean_absolute_error: 2
     1740
5013 Epoch 2257/20000
5014 - 0s - loss: 8.6824 -
     mean_absolute_error: 2.0349 - val_loss
      12.7155 - val_mean_absolute_error: 2
     1740
5015 Epoch 2258/20000
    - 0s - loss: 6.0379 -
5016
     mean_absolute_error: 1.8574 - val_loss
       12.7160 - val_mean_absolute_error: 2
     1740
5017 Epoch 2259/20000
     - 0s - loss: 8.4877 -
5018
     mean_absolute_error: 2.1178 - val_loss
     : 12.7153 - val_mean_absolute_error: 2
     1739
```

```
File - boston01
5019 Epoch 2260/20000
      - 0s - loss: 8.1294 -
5020
     mean_absolute_error: 2.0296 - val_loss
       12.7151 - val_mean_absolute_error: 2
      1739
5021
5022 Epoch 02260: saving model to ./model/
     model_best.h5
5023 Epoch 2261/20000
5024 - 0s - loss: 7.4700 -
     mean_absolute_error: 1.8998 - val_loss
       12.7159 - val_mean_absolute_error: 2
      1740
5025 Epoch 2262/20000
5026 - 0s - loss: 7.8826 -
     mean_absolute_error: 1.9844 - val_loss
       12.7154 - val_mean_absolute_error: 2
      1740
5027 Epoch 2263/20000
     - 0s - loss: 7.6025 -
5028
     mean_absolute_error: 2.0271 - val_loss
       12.7153 - val_mean_absolute_error:
      1739
5029 Epoch 2264/20000
```

mean_absolute_error: 1.9410 - val_loss : 12.7156 - val_mean_absolute_error: 2

1739

5039 Epoch 2268/20000

5040 - 0s - loss: 5.9872 -

```
5040 mean_absolute_error: 1.8343 - val_loss
       12.7149 - val_mean_absolute_error: 2
     1738
5041 Epoch 2269/20000
5042 - 0s - Loss: 6.6845 -
     mean_absolute_error: 1.9299 - val_loss
       12.7153 - val_mean_absolute_error: 2
     1739
5043 Epoch 2270/20000
5044 - 0s - loss: 8.3357 -
     mean_absolute_error: 2.0738 - val_loss
       12.7145 - val_mean_absolute_error: 2
     1738
5045
5046 Epoch 02270: saving model to ./model/
     model_best.h5
5047 Epoch 2271/20000
5048 - 0s - loss: 8.4984 -
     mean_absolute_error: 2.0461 - val_loss
      12.7139 - val_mean_absolute_error:
     1738
5049 Epoch 2272/20000
5050 - 0s - loss: 9.0996 -
     mean_absolute_error: 2.1220 - val_loss
```

```
12.7140 - val_mean_absolute_error: 2
5050
     1738
5051 Epoch 2273/20000
     - 0s - loss: 7.2022 -
5052 l
     mean_absolute_error: 1.9488 - val_loss
       12.7140 - val_mean_absolute_error: 2
     1738
5053 Epoch 2274/20000
5054
     - 0s - loss: 7.8877 -
     mean_absolute_error: 2.0143 - val_loss
       12.7128 - val_mean_absolute_error: 2
     1738
5055 Epoch 2275/20000
     - 0s - loss: 6.8287 -
5056
     mean_absolute_error: 1.9551 - val_loss
       12.7132 - val_mean_absolute_error: 2
     . 1738
5057 Epoch 2276/20000
     - 0s - loss: 6.8723 -
5058
     mean_absolute_error: 1.8702 - val_loss
       12.7139 - val_mean_absolute_error: 2
     1738
5059 Epoch 2277/20000
5060 - 0s - loss: 6.4537
```

```
5060 mean_absolute_error: 1.9039 - val_loss
       12.7137 - val_mean_absolute_error: 2
     1738
5061 Epoch 2278/20000
5062 - 0s - loss: 6.9294 -
     mean_absolute_error: 1.7933 - val_loss
       12.7136 - val_mean_absolute_error: 2
     1738
5063 Epoch 2279/20000
5064 - 0s - loss: 6.6433
     mean_absolute_error: 1.9038 - val_loss
       12.7130 - val_mean_absolute_error: 2
     1738
5065 Epoch 2280/20000
    - 0s - loss: 7.9481
5066
     mean_absolute_error: 2.0634 - val_loss
      12.7134 - val_mean_absolute_error: 2
     . 1738
5067
5068 Epoch 02280: saving model to ./model/
     model_best.h5
5069 Epoch 2281/20000
5070 - 0s - loss: 6.4876 -
     mean_absolute_error: 1.9439 - val_loss
```

```
5070 : 12.7134 - val_mean_absolute_error: 2
     1737
5071 Epoch 2282/20000
5072 - 0s - loss: 7.2640 -
     mean_absolute_error: 1.9501 - val_loss
       12.7130 - val_mean_absolute_error: 2
     1737
5073 Epoch 2283/20000
     - 0s - loss: 6.0635 -
5074
     mean_absolute_error: 1.8267 - val_loss
       12.7142 - val_mean_absolute_error: 2
     1738
5075 Epoch 2284/20000
     - 0s - loss: 6.7685 -
5076 l
     mean_absolute_error: 1.9441 - val_loss
       12.7142 - val_mean_absolute_error: 2
     . 1738
5077 Epoch 2285/20000
5078 - 0s - loss: 7.2111 -
     mean_absolute_error: 1.9342 - val_loss
       12.7153 - val_mean_absolute_error: 2
     1738
5079 Epoch 2286/20000
5080 - 0s - loss: 8.7790 -
```

```
File - boston01
```

```
5080 mean_absolute_error: 2.0124 - val_loss
       12.7155 - val_mean_absolute_error: 2
     1739
5081 Epoch 2287/20000
5082 - 0s - loss: 7.6614 -
     mean_absolute_error: 2.0389 - val_loss
       12.7159 - val_mean_absolute_error: 2
     1739
5083 Epoch 2288/20000
5084 - 0s - loss: 7.8481
     mean_absolute_error: 1.9961 - val_loss
       12.7152 - val_mean_absolute_error: 2
     1738
5085 Epoch 2289/20000
5086 - 0s - loss: 6.2372 -
     mean_absolute_error: 1.8937 - val_loss
      12.7153 - val_mean_absolute_error: 2
     1738
5087 Epoch 2290/20000
     - 0s - loss: 7.5420 -
5088
     mean_absolute_error: 2.0163 - val_loss
     : 12.7140 - val_mean_absolute_error:
     . 1737
```

5089

```
5090 Epoch 02290: saving model to ./model/
     model best.h5
5091 Epoch 2291/20000
5092 - 0s - loss: 6.7488 -
     mean_absolute_error: 1.9238 - val_loss
      12.7137 - val_mean_absolute_error: 2
     1738
5093 Epoch 2292/20000
     - 0s - loss: 6.8721 -
5094
     mean_absolute_error: 1.8480 - val_loss
       12.7137 - val_mean_absolute_error: 2
     1738
5095 Epoch 2293/20000
     - 0s - loss: 6.5903 -
5096
     mean_absolute_error: 1.8183 - val_loss
      12.7135 - val_mean_absolute_error: 2
     . 1738
5097 Epoch 2294/20000
5098 - 0s - loss: 7.9494 ·
     mean_absolute_error: 2.0447 - val_loss
       12.7137 - val_mean_absolute_error: 2
     1738
5099 Epoch 2295/20000
5100 - 0s - loss: 7.9387
```

```
5100 mean_absolute_error: 2.0895 - val_loss
       12.7137 - val_mean_absolute_error: 2
     1738
5101 Epoch 2296/20000
5102 - 0s - loss: 7.2532 -
     mean_absolute_error: 2.0586 - val_loss
       12.7135 - val_mean_absolute_error: 2
     . 1738
5103 Epoch 2297/20000
5104 - 0s - loss: 8.7631
     mean_absolute_error: 2.0517 - val_loss
       12.7129 - val_mean_absolute_error: 2
     1738
5105 Epoch 2298/20000
5106 - 0s - loss: 9.1838 ·
     mean_absolute_error: 2.2259 - val_loss
       12.7135 - val_mean_absolute_error: 2
     1738
5107 Epoch 2299/20000
    - 0s - loss: 7.7468 -
5108
     mean_absolute_error: 1.9444 - val_loss
       12.7135 - val_mean_absolute_error:
     1738
5109 Epoch 2300/20000
```

```
- 0s - loss: 7.9466 -
5110
     mean_absolute_error: 2.0295 - val_loss
       12.7127 - val_mean_absolute_error: 2
     . 1738
5111
5112 Epoch 02300: saving model to ./model/
     model_best.h5
5113 Epoch 2301/20000
5114 - 0s - loss: 7.3666 -
     mean_absolute_error: 1.9319 - val_loss
       12.7135 - val_mean_absolute_error: 2
      1739
5115 Epoch 2302/20000
5116 - 0s - loss: 8.6230 -
     mean_absolute_error: 2.0571 - val_loss
       12.7127 - val_mean_absolute_error: 2
     . 1738
5117 Epoch 2303/20000
5118 - 0s - loss: 6.6726 -
     mean_absolute_error: 1.8027 - val_loss
       12.7125 - val_mean_absolute_error: 2
      1738
5119 Epoch 2304/20000
5120 - 0s - loss: 7.5290 -
```

```
5120 mean_absolute_error: 1.9423 - val_loss
       12.7125 - val_mean_absolute_error: 2
     1738
5121 Epoch 2305/20000
5122 - 0s - loss: 7.4391 -
     mean_absolute_error: 1.9468 - val_loss
       12.7133 - val_mean_absolute_error: 2
     1739
5123 Epoch 2306/20000
5124 - 0s - Loss: 7.5943 -
     mean_absolute_error: 2.0252 - val_loss
       12.7136 - val_mean_absolute_error: 2
     1739
5125 Epoch 2307/20000
5126 - 0s - loss: 7.5777 ·
     mean_absolute_error: 1.9935 - val_loss
       12.7132 - val_mean_absolute_error: 2
     1739
5127 Epoch 2308/20000
5128 - 0s - loss: 6.9143 -
     mean_absolute_error: 1.9076 - val_loss
       12.7125 - val_mean_absolute_error:
     1739
5129 Epoch 2309/20000
```

5133

```
- 0s - loss: 7.2859 -
     mean_absolute_error: 1.9684 - val_loss
       12.7127 - val_mean_absolute_error: 2
      1738
5131 Epoch 2310/20000
5132 - 0s - loss: 8.4423 -
     mean_absolute_error: 2.1124 - val_loss
       12.7132 - val_mean_absolute_error: 2
     . 1739
5134 Epoch 02310: saving model to ./model/
     model_best.h5
5135 Epoch 2311/20000
     - 0s - loss: 7.3092 -
5136
     mean_absolute_error: 1.9325 - val_loss
       12.7119 - val_mean_absolute_error: 2
     1738
5137 Epoch 2312/20000
     - 0s - loss: 7.0195 -
5138 I
     mean_absolute_error: 1.9826 - val_loss
       12.7118 - val_mean_absolute_error: 2
     1738
```

5139 Epoch 2313/20000

5140 - 0s - loss: 6.8337

```
5140 mean_absolute_error: 1.8604 - val_loss
       12.7121 - val_mean_absolute_error: 2
     1738
5141 Epoch 2314/20000
5142 - 0s - loss: 7.7241 -
     mean_absolute_error: 2.0303 - val_loss
       12.7122 - val_mean_absolute_error: 2
     . 1737
5143 Epoch 2315/20000
5144 - 0s - loss: 7.4331
     mean_absolute_error: 1.9147 - val_loss
       12.7138 - val_mean_absolute_error: 2
     1738
5145 Epoch 2316/20000
5146 - 0s - loss: 8.2430 -
     mean_absolute_error: 2.0168 - val_loss
       12.7138 - val_mean_absolute_error: 2
     1738
5147 Epoch 2317/20000
5148 - 0s - loss: 8.6355 -
     mean_absolute_error: 2.1043 - val_loss
       12.7137 - val_mean_absolute_error:
     1738
5149 Epoch 2318/20000
```

```
- 0s - loss: 8.4765 -
5150
     mean_absolute_error: 2.0156 - val_loss
       12.7143 - val_mean_absolute_error: 2
      1738
5151 Epoch 2319/20000
5152 - 0s - loss: 8.8917 -
     mean_absolute_error: 2.0654 - val_loss
       12.7140 - val_mean_absolute_error: 2
     1738
5153 Epoch 2320/20000
5154 - 0s - loss: 7.6261 -
     mean_absolute_error: 1.9281 - val_loss
     : 12.7133 - val_mean_absolute_error:
     . 1737
5155
5156 Epoch 02320: saving model to ./model/
     model_best.h5
5157 Epoch 2321/20000
5158 - 0s - loss: 7.6690 -
     mean_absolute_error: 1.9627 - val_loss
       12.7130 - val_mean_absolute_error: 2
     1737
5159 Epoch 2322/20000
5160 - 0s - loss: 8.4457
```

```
5160 mean_absolute_error: 2.0611 - val_loss
       12.7144 - val_mean_absolute_error: 2
     1738
5161 Epoch 2323/20000
5162 - 0s - loss: 8.9019 -
     mean_absolute_error: 2.0394 - val_loss
       12.7142 - val_mean_absolute_error: 2
     . 1738
5163 Epoch 2324/20000
5164 - 0s - loss: 6.5240 -
     mean_absolute_error: 1.8550 - val_loss
       12.7138 - val_mean_absolute_error: 2
     1738
5165 Epoch 2325/20000
5166 - 0s - loss: 8.3658
     mean_absolute_error: 2.1044 - val_loss
       12.7136 - val_mean_absolute_error: 2
     1738
5167 Epoch 2326/20000
5168 - 0s - loss: 7.3932 -
     mean_absolute_error: 1.9848 - val_loss
       12.7134 - val_mean_absolute_error:
     1738
5169 Epoch 2327/20000
```

```
- 0s - loss: 9.2462 -
5170
     mean_absolute_error: 2.1632 - val_loss
       12.7128 - val_mean_absolute_error: 2
      1737
5171 Epoch 2328/20000
5172 - 0s - loss: 6.9289 -
     mean_absolute_error: 1.9868 - val_loss
       12.7130 - val_mean_absolute_error: 2
     1737
5173 Epoch 2329/20000
5174 - 0s - loss: 6.2824 -
     mean_absolute_error: 1.8693 - val_loss
       12.7128 - val_mean_absolute_error: 2
     1737
5175 Epoch 2330/20000
     - 0s - loss: 6.7647 -
5176
     mean_absolute_error: 1.8982 - val_loss
       12.7125 - val_mean_absolute_error: 2
     1736
5177
    Epoch 02330: saving model to ./model/
5178
     model_best.h5
5179 Epoch 2331/20000
5180 - 0s - loss: 9.1553
```

```
5180 mean_absolute_error: 2.1880 - val_loss
       12.7132 - val_mean_absolute_error: 2
     1737
5181 Epoch 2332/20000
5182 - 0s - loss: 9.3115 -
     mean_absolute_error: 2.0800 - val_loss
       12.7128 - val_mean_absolute_error: 2
     1736
5183 Epoch 2333/20000
5184 - 0s - loss: 6.7128 -
     mean_absolute_error: 1.9156 - val_loss
       12.7127 - val_mean_absolute_error: 2
     1736
5185 Epoch 2334/20000
5186 - 0s - loss: 8.1780 -
     mean_absolute_error: 2.0366 - val_loss
       12.7129 - val_mean_absolute_error:
     1736
5187 Epoch 2335/20000
     - 0s - loss: 8.7308 -
5188
     mean_absolute_error: 2.1303 - val_loss
       12.7126 - val_mean_absolute_error:
      1736
5189 Epoch 2336/20000
```

```
- 0s - loss: 8.2307 -
5190
     mean_absolute_error: 2.1027 - val_loss
       12.7127 - val_mean_absolute_error: 2
      1736
5191 Epoch 2337/20000
5192 - 0s - loss: 6.2338 -
     mean_absolute_error: 1.7306 - val_loss
       12.7126 - val_mean_absolute_error: 2
     1736
5193 Epoch 2338/20000
5194 - 0s - loss: 7.1095 -
     mean_absolute_error: 1.9379 - val_loss
       12.7130 - val_mean_absolute_error: 2
     1736
5195 Epoch 2339/20000
     - 0s - loss: 8.3568 -
5196
     mean_absolute_error: 2.1121 - val loss
       12.7130 - val_mean_absolute_error: 2
      1736
5197 Epoch 2340/20000
     - 0s - loss: 6.6993 -
5198
     mean_absolute_error: 1.9693 - val_loss
     : 12.7127 - val_mean_absolute_error: 2
     1737
```

```
5199
5200 Epoch 02340: saving model to ./model/
     model_best.h5
5201 Epoch 2341/20000
5202 - 0s - loss: 7.0135 -
     mean_absolute_error: 1.8454 - val_loss
       12.7125 - val_mean_absolute_error: 2
     1736
5203 Epoch 2342/20000
5204 - 0s - loss: 8.8257
     mean_absolute_error: 2.1044 - val_loss
       12.7128 - val_mean_absolute_error: 2
     1737
5205 Epoch 2343/20000
5206 - 0s - loss: 6.9550
     mean_absolute_error: 2.0346 - val_loss
      12.7126 - val_mean_absolute_error:
     1737
5207 Epoch 2344/20000
     - 0s - loss: 6.3538 -
5208
     mean_absolute_error: 1.8708 - val_loss
       12.7118 - val_mean_absolute_error:
     1736
5209 Epoch 2345/20000
```

```
- 0s - loss: 7.0605 -
5210
     mean_absolute_error: 2.0001 - val_loss
       12.7115 - val_mean_absolute_error: 2
     1736
5211 Epoch 2346/20000
5212 - 0s - loss: 8.0808 -
     mean_absolute_error: 2.0550 - val_loss
       12.7111 - val_mean_absolute_error: 2
     1735
5213 Epoch 2347/20000
5214 - 0s - loss: 7.9426 -
     mean_absolute_error: 1.9441 - val_loss
      12.7119 - val_mean_absolute_error: 2
     1736
5215 Epoch 2348/20000
     - 0s - loss: 7.1935 -
5216
     mean_absolute_error: 2.0059 - val_loss
       12.7115 - val_mean_absolute_error: 2
     1735
5217 Epoch 2349/20000
     - 0s - loss: 8.7963 -
5218
     mean_absolute_error: 2.0611 - val_loss
     : 12.7103 - val_mean_absolute_error: 2
     1735
```

```
- 0s - loss: 8.7779 -
5230
     mean_absolute_error: 2.1471 - val_loss
       12.7088 - val_mean_absolute_error: 2
     1733
5231 Epoch 2355/20000
5232 - 0s - loss: 8.7118 -
     mean_absolute_error: 1.9825 - val_loss
       12.7100 - val_mean_absolute_error: 2
     1734
5233 Epoch 2356/20000
5234 - 0s - loss: 7.7663 -
     mean_absolute_error: 2.0211 - val_loss
       12.7091 - val_mean_absolute_error: 2
     1733
5235 Epoch 2357/20000
     - 0s - loss: 5.7608 -
5236
     mean_absolute_error: 1.8161 - val_loss
       12.7095 - val_mean_absolute_error: 2
     1733
5237 Epoch 2358/20000
     - 0s - loss: 10.3792 -
5238
     mean_absolute_error: 2.2712 - val_loss
     : 12.7104 - val_mean_absolute_error: 2
     1734
```

5249 Epoch 2363/20000

```
- 0s - loss: 7.6213 -
5250
     mean_absolute_error: 2.0249 - val_loss
       12.7089 - val_mean_absolute_error: 2
     1733
5251 Epoch 2364/20000
5252 - 0s - loss: 6.6329 -
     mean_absolute_error: 1.9405 - val_loss
       12.7087 - val_mean_absolute_error: 2
     1733
5253 Epoch 2365/20000
5254 - 0s - loss: 6.8886 -
     mean_absolute_error: 1.9445 - val_loss
       12.7079 - val_mean_absolute_error: 2
     1733
5255 Epoch 2366/20000
     - 0s - Loss: 8.2201 -
5256
     mean_absolute_error: 2.0153 - val_loss
       12.7079 - val_mean_absolute_error: 2
     1733
5257 Epoch 2367/20000
     - 0s - loss: 8.5764 -
5258
     mean_absolute_error: 2.1042 - val_loss
     : 12.7070 - val_mean_absolute_error: 2
     1732
```

```
File - boston01
5259 Epoch 2368/20000
      - 0s - loss: 7.3524 -
5260
     mean_absolute_error: 1.9596 - val_l<u>oss</u>
       12.7071 - val_mean_absolute_error: 2
      1732
5261 Epoch 2369/20000
      - 0s - loss: 7.5104 -
5262
     mean_absolute_error: 2.0181 - val_loss
       12.7059 - val_mean_absolute_error: 2
      1731
5263 Epoch 2370/20000
5264 - 0s - loss: 7.7883 -
     mean_absolute_error: 2.0788 - val_loss
       12.7054 - val_mean_absolute_error: 2
      . 1731
5265
5266 Epoch 02370: saving model to ./model/
     model_best.h5
5267 Epoch 2371/20000
     - 0s - loss: 7.3092 -
5268
     mean_absolute_error: 1.9113 - val_loss
       12.7063 - val_mean_absolute_error:
      1732
5269 Epoch 2372/20000
```

```
- 0s - loss: 6.6325 -
5270
     mean_absolute_error: 1.9313 - val_loss
       12.7061 - val_mean_absolute_error: 2
     1731
5271 Epoch 2373/20000
5272 - 0s - loss: 7.0459 -
     mean_absolute_error: 1.8486 - val_loss
       12.7056 - val_mean_absolute_error: 2
     1731
5273 Epoch 2374/20000
5274 - 0s - loss: 6.9681 -
     mean_absolute_error: 1.9010 - val_loss
      12.7048 - val_mean_absolute_error: 2
     1731
5275 Epoch 2375/20000
     - 0s - loss: 7.9726 -
5276
     mean_absolute_error: 1.9468 - val loss
       12.7054 - val_mean_absolute_error: 2
     1731
5277 Epoch 2376/20000
     - 0s - loss: 6.9863 -
5278
     mean_absolute_error: 1.8635 - val_loss
     : 12.7055 - val_mean_absolute_error: 2
     1732
```

```
- 0s - loss: 7.2600 -
5290
     mean_absolute_error: 1.9451 - val_loss
       12.7068 - val_mean_absolute_error: 2
     1733
5291 Epoch 2382/20000
     - 0s - loss: 7.0230 -
5292
     mean_absolute_error: 1.8642 - val_loss
       12.7070 - val_mean_absolute_error: 2
     1733
5293 Epoch 2383/20000
5294 - 0s - loss: 6.9090 -
     mean_absolute_error: 1.9707 - val_loss
       12.7064 - val_mean_absolute_error: 2
     1732
5295 Epoch 2384/20000
     - 0s - loss: 6.5965 -
5296
     mean_absolute_error: 1.9483 - val_loss
       12.7057 - val_mean_absolute_error: 2
     1732
5297 Epoch 2385/20000
     - 0s - loss: 7.8237 -
5298
     mean_absolute_error: 2.0643 - val_loss
     : 12.7056 - val_mean_absolute_error: 2
     1732
```

mean_absolute_error: 1.8807 - val_loss : 12.7072 - val_mean_absolute_error: 2

```
File - boston01
5308 . 1733
5309
5310 Epoch 02390: saving model to ./model/
     model_best.h5
5311 Epoch 2391/20000
5312 - 0s - loss: 6.5687 -
     mean_absolute_error: 1.9189 - val_loss
       12.7072 - val_mean_absolute_error: 2
      1734
5313 Epoch 2392/20000
5314 - 0s - loss: 6.2175 -
     mean_absolute_error: 1.8501 - val_loss
       12.7063 - val_mean_absolute_error: 2
      1733
5315 Epoch 2393/20000
5316 - 0s - loss: 8.4965 -
     mean_absolute_error: 2.0504 - val_loss
       12.7062 - val_mean_absolute_error: 2
      1733
5317 Epoch 2394/20000
      - 0s - loss: 8.1268 -
5318
     mean_absolute_error: 2.0406 - val_loss
     : 12.7060 - val_mean_absolute_error: 2
      1733
```

5328 - Os - Loss: 7.8942 - mean_absolute_error: 1.9622 - val_loss : 12.7062 - val_mean_absolute_error: 2

```
File - boston01
5328 . 1733
5329 Epoch 2400/20000
5330 - 0s - loss: 7.1468
     mean_absolute_error: 1.9461 - val_loss
       12.7064 - val_mean_absolute_error: 2
      1734
5331
5332 Epoch 02400: saving model to ./model/
     model_best.h5
5333 Epoch 2401/20000
5334 - 0s - loss: 6.6045 -
     mean_absolute_error: 1.9333 - val_loss
       12.7061 - val_mean_absolute_error: 2
      1733
5335 Epoch 2402/20000
      - 0s - loss: 8.0276 -
5336
     mean_absolute_error: 2.0253 - val_loss
       12.7064 - val_mean_absolute_error: 2
      1734
5337 Epoch 2403/20000
      - 0s - loss: 7.5562 -
5338
     mean_absolute_error: 1.9776 - val_loss
     : 12.7065 - val_mean_absolute_error: 2
      1734
```

mean_absolute_error: 2.0487 - val_loss

12.7048 - val_mean_absolute_error: 2

```
File - boston01
5348 . 1733
5349 Epoch 2409/20000
5350 - 0s - loss: 6.8759
     mean_absolute_error: 1.9155 - val_loss
       12.7039 - val_mean_absolute_error: 2
      1732
5351 Epoch 2410/20000
5352 - 0s - loss: 7.0037
     mean_absolute_error: 1.9557 - val_loss
     : 12.7030 - val_mean_absolute_error:
      . 1732
5353
5354 Epoch 02410: saving model to ./model/
     model best.h5
5355 Epoch 2411/20000
      - 0s - loss: 6.4946 -
5356
     mean_absolute_error: 1.8530 - val_loss
       12.7025 - val_mean_absolute_error: 2
      1732
5357 Epoch 2412/20000
      - 0s - loss: 6.8489 -
5358
     mean_absolute_error: 1.8940 - val_loss
     : 12.7025 - val_mean_absolute_error: 2
      1732
```

12.7031 - val_mean_absolute_error: 2

```
File - boston01
5368 . 1734
5369 Epoch 2418/20000
5370 - 0s - loss: 6.4247
     mean_absolute_error: 1.9315 - val_loss
       12.7041 - val_mean_absolute_error: 2
      1735
5371 Epoch 2419/20000
5372 - 0s - loss: 7.3855
     mean_absolute_error: 1.9455 - val_loss
       12.7030 - val_mean_absolute_error:
      1733
5373 Epoch 2420/20000
5374 - 0s - loss: 7.9112 -
     mean_absolute_error: 2.0427 - val_loss
       12.7042 - val_mean_absolute_error:
      . 1735
5375
5376 Epoch 02420: saving model to ./model/
     model_best.h5
5377 Epoch 2421/20000
      - 0s - loss: 8.2680 -
5378
     mean_absolute_error: 2.0842 - val_loss
     : 12.7035 - val_mean_absolute_error: 2
      1735
```

12.7022 - val_mean_absolute_error: 2

```
File - boston01
     . 1733
5388
5389 Epoch 2427/20000
      - 0s - loss: 9.1820
5390 l
     mean_absolute_error: 2.1054 - val_loss
       12.7032 - val_mean_absolute_error: 2
      1735
5391 Epoch 2428/20000
5392 - 0s - Loss: 8.1335
     mean_absolute_error: 2.0558 - val_loss
       12.7036 - val_mean_absolute_error:
      1735
5393 Epoch 2429/20000
5394
      - 0s - loss: 7.0595 -
     mean_absolute_error: 1.9917 - val_loss
       12.7040 - val_mean_absolute_error:
      1735
5395 Epoch 2430/20000
      - 0s - loss: 7.7843 -
5396
     mean_absolute_error: 2.1088 - val_loss
       12.7044 - val_mean_absolute_error:
      1735
5397
     Epoch 02430: saving model to ./model/
5398
     model_best.h5
```

Page 542 of 1152

mean_absolute_error: 2.0476 - val_loss

12.7079 - val_mean_absolute_error: 2

```
File - boston01
5408 . 1738
5409 Epoch 2436/20000
5410 - 0s - loss: 8.2575
     mean_absolute_error: 2.0659 - val_loss
       12.7070 - val_mean_absolute_error: 2
      1737
5411 Epoch 2437/20000
5412 - 0s - loss: 6.8749 -
     mean_absolute_error: 1.9016 - val_loss
       12.7073 - val_mean_absolute_error:
      1738
5413 Epoch 2438/20000
5414 - 0s - loss: 6.6887 -
     mean_absolute_error: 1.9051 - val_loss
       12.7068 - val_mean_absolute_error: 2
      1738
5415 Epoch 2439/20000
5416 - Os - Loss: 7.4072 -
     mean_absolute_error: 1.9068 - val_loss
       12.7063 - val_mean_absolute_error:
      1738
5417 Epoch 2440/20000
5418 - 0s - loss: 8.4215 -
     mean_absolute_error: 2.0978 - val_loss
```

```
12.7061 - val_mean_absolute_error: 2
5418
     1738
5419
5420 Epoch 02440: saving model to ./model/
     model_best.h5
5421 Epoch 2441/20000
     - 0s - loss: 6.5938 -
5422
     mean_absolute_error: 1.8557 - val_loss
      12.7060 - val_mean_absolute_error: 2
     . 1738
5423 Epoch 2442/20000
5424 - 0s - loss: 8.5297 -
     mean_absolute_error: 2.0102 - val_loss
       12.7069 - val_mean_absolute_error: 2
     1739
5425 Epoch 2443/20000
5426 - 0s - loss: 7.4845 -
     mean_absolute_error: 2.0174 - val_loss
       12.7069 - val_mean_absolute_error: 2
     1739
5427 Epoch 2444/20000
5428 - 0s - loss: 9.3445
     mean_absolute_error: 2.0955 - val_loss
     12.7067 - val_mean_absolute_error: 2
```

```
File - boston01
5428 . 1738
5429 Epoch 2445/20000
5430 - 0s - loss: 7.7814
     mean_absolute_error: 2.0103 - val_loss
       12.7059 - val_mean_absolute_error: 2
      1737
5431 Epoch 2446/20000
5432 - 0s - Loss: 6.2942 ·
     mean_absolute_error: 1.8836 - val_loss
       12.7058 - val_mean_absolute_error:
      1737
5433 Epoch 2447/20000
5434 - 0s - loss: 7.8453 -
     mean_absolute_error: 1.9609 - val_loss
       12.7059 - val_mean_absolute_error:
      1737
5435 Epoch 2448/20000
5436 - 0s - loss: 9.3954 -
     mean_absolute_error: 2.1591 - val_loss
       12.7065 - val_mean_absolute_error:
      1737
5437 Epoch 2449/20000
      <u>- 0s - loss: 7.7216 - </u>
5438
     mean_absolute_error: 2.0399 - val_l<u>oss</u>
```

```
12.7062 - val_mean_absolute_error: 2
5438
     1737
5439 Epoch 2450/20000
     - Os - Loss: 9.3477 -
5440
     mean_absolute_error: 2.1037 - val_loss
     : 12.7057 - val_mean_absolute_error: 2
     . 1736
5441
5442 Epoch 02450: saving model to ./model/
     model best.h5
5443 Epoch 2451/20000
5444 - 0s - loss: 8.4743 -
     mean_absolute_error: 2.0352 - val_loss
       12.7055 - val_mean_absolute_error: 2
     1736
5445 Epoch 2452/20000
     - 0s - loss: 8.9325 -
5446
     mean_absolute_error: 2.0369 - val_loss
       12.7046 - val_mean_absolute_error: 2
     1735
5447 Epoch 2453/20000
5448 - 0s - loss: 7.9406
     mean_absolute_error: 1.9984 - val_loss
     12.7048 - val_mean_absolute_error: 2
```

```
File - boston01
5448 . 1735
5449 Epoch 2454/20000
5450 - 0s - loss: 7.7205
     mean_absolute_error: 2.0507 - val_loss
       12.7056 - val_mean_absolute_error: 2
      1735
5451 Epoch 2455/20000
5452 - 0s - loss: 7.6827
     mean_absolute_error: 1.9513 - val_loss
       12.7061 - val_mean_absolute_error:
      1736
5453 Epoch 2456/20000
5454 - 0s - loss: 8.1101 -
     mean_absolute_error: 2.0594 - val_loss
       12.7064 - val_mean_absolute_error:
      1736
5455 Epoch 2457/20000
5456 - 0s - loss: 8.2792 -
     mean_absolute_error: 2.0962 - val_loss
       12.7068 - val_mean_absolute_error:
      1736
5457 Epoch 2458/20000
      - 0s - loss: 7.8432 -
5458
     mean_absolute_error: 2.0137 - val_l<u>oss</u>
```

```
12.7070 - val_mean_absolute_error:
5458
     1736
5459 Epoch 2459/20000
     - 0s - loss: 7.2834 -
5460
     mean_absolute_error: 2.0200 - val_loss
       12.7079 - val_mean_absolute_error: 2
     1736
5461 Epoch 2460/20000
5462
     - 0s - loss: 7.4888 -
     mean_absolute_error: 1.8805 - val_loss
       12.7082 - val_mean_absolute_error: 2
     1736
5463
    Epoch 02460: saving model to ./model/
5464
     model_best.h5
5465 Epoch 2461/20000
5466 - 0s - loss: 7.2420 -
     mean_absolute_error: 1.8966 - val_loss
       12.7077 - val_mean_absolute_error: 2
     1735
5467 Epoch 2462/20000
5468 - 0s - loss: 8.5958
     mean_absolute_error: 2.1076 - val_loss
     12.7067 - val_mean_absolute_error: 2
```

```
File - boston01
5468 . 1734
5469 Epoch 2463/20000
5470 - 0s - Loss: 8.6127
     mean_absolute_error: 1.9490 - val_loss
       12.7061 - val_mean_absolute_error: 2
      1734
5471 Epoch 2464/20000
5472 - 0s - Loss: 8.0112 -
     mean_absolute_error: 2.0251 - val_loss
       12.7055 - val_mean_absolute_error:
      1734
5473 Epoch 2465/20000
5474 - 0s - loss: 7.1444 -
     mean_absolute_error: 1.9259 - val_loss
       12.7049 - val_mean_absolute_error:
      1734
5475 Epoch 2466/20000
5476 - Os - Loss: 7.4112 -
     mean_absolute_error: 1.9257 - val_loss
       12.7049 - val_mean_absolute_error:
      1733
5477 Epoch 2467/20000
      - 0s - loss: 8.5766 -
5478
     mean_absolute_error: 2.0191 - val_l<u>oss</u>
```

```
12.7045 - val_mean_absolute_error: 2
5478
     1733
5479 Epoch 2468/20000
     - 0s - loss: 8.7991 -
5480
     mean_absolute_error: 2.0849 - val_loss
       12.7050 - val_mean_absolute_error: 2
      1734
5481 Epoch 2469/20000
5482
     - 0s - loss: 7.5921
     mean_absolute_error: 2.0389 - val_loss
       12.7041 - val_mean_absolute_error: 2
      1733
5483 Epoch 2470/20000
     - 0s - loss: 8.6654 -
5484
     mean_absolute_error: 2.0115 - val_l<u>oss</u>
       12.7033 - val_mean_absolute_error: 2
     . 1733
5485
5486 Epoch 02470: saving model to ./model/
     model_best.h5
5487 Epoch 2471/20000
5488 - 0s - loss: 7.8902
     mean_absolute_error: 2.0262 - val_loss
      12.7035 - val_mean_absolute_error: 2
```

```
File - boston01
5488 . 1732
5489 Epoch 2472/20000
5490 - 0s - loss: 7.2128
     mean_absolute_error: 1.9806 - val_loss
       12.7037 - val_mean_absolute_error: 2
      1733
5491 Epoch 2473/20000
5492 - 0s - loss: 7.4818 -
     mean_absolute_error: 2.0325 - val_loss
       12.7037 - val_mean_absolute_error:
      1733
5493 Epoch 2474/20000
5494
      - 0s - loss: 7.4901
     mean_absolute_error: 2.0259 - val_loss
       12.7036 - val_mean_absolute_error:
      1733
5495 Epoch 2475/20000
5496 - 0s - loss: 7.8092 -
     mean_absolute_error: 1.9859 - val_loss
       12.7026 - val_mean_absolute_error:
      1732
5497 Epoch 2476/20000
      - 0s - loss: 6.3489 -
5498
     mean_absolute_error: 1.9008 - val_l<u>oss</u>
```

```
12.7018 - val_mean_absolute_error: 2
5498
     1732
5499 Epoch 2477/20000
     - 0s - loss: 6.8395 -
5500
     mean_absolute_error: 1.8927 - val_loss
       12.7022 - val_mean_absolute_error: 2
      1732
5501 Epoch 2478/20000
5502
     - 0s - loss: 7.5969 -
     mean_absolute_error: 2.0111 - val_loss
       12.7017 - val_mean_absolute_error: 2
      1731
5503 Epoch 2479/20000
     - 0s - loss: 8.6400 -
5504
     mean_absolute_error: 2.1207 - val_loss
       12.7013 - val_mean_absolute_error: 2
     . 1730
5505 Epoch 2480/20000
     - 0s - loss: 7.7045 -
5506
     mean_absolute_error: 2.0542 - val_loss
       12.7017 - val_mean_absolute_error: 2
     1730
5507
    Epoch 02480: saving model to ./model/
5508
```

```
5518: 12.7038 - val_mean_absolute_error: 2
     1732
5519 Epoch 2486/20000
     - 0s - loss: 9.4643 -
5520
     mean_absolute_error: 2.1686 - val_loss
      12.7042 - val_mean_absolute_error: 2
     1732
5521 Epoch 2487/20000
5522
     - 0s - loss: 8.6071 -
     mean_absolute_error: 2.1518 - val_loss
       12.7047 - val_mean_absolute_error: 2
     1732
5523 Epoch 2488/20000
     - 0s - loss: 7.6104 -
5524
     mean_absolute_error: 1.9979 - val_loss
      12.7055 - val_mean_absolute_error: 2
     . 1733
5525 Epoch 2489/20000
     - 0s - loss: 5.7400 -
5526
     mean_absolute_error: 1.8404 - val_loss
       12.7053 - val_mean_absolute_error: 2
     1733
5527 Epoch 2490/20000
5528 - 0s - loss: 8.1426 -
```

```
5528 mean_absolute_error: 2.1309 - val_loss
       12.7053 - val_mean_absolute_error: 2
     1733
5529
5530 Epoch 02490: saving model to ./model/
     model_best.h5
5531 Epoch 2491/20000
5532 - 0s - loss: 7.8823 -
     mean_absolute_error: 2.0383 - val_loss
      12.7052 - val_mean_absolute_error: 2
     1733
5533 Epoch 2492/20000
5534 - 0s - loss: 10.1278 -
     mean_absolute_error: 2.1183 - val_loss
       12.7069 - val_mean_absolute_error:
      1734
5535 Epoch 2493/20000
5536 - Os - Loss: 8.4963 -
     mean_absolute_error: 2.0134 - val_loss
       12.7069 - val_mean_absolute_error:
     1735
5537 Epoch 2494/20000
     - 0s - loss: 7.8799 -
5538
     mean_absolute_error: 2.0323 - val_loss
```

```
12.7068 - val_mean_absolute_error: 2
5538
     1735
5539 Epoch 2495/20000
     - 0s - loss: 8.9580 -
5540
     mean_absolute_error: 2.1263 - val_loss
       12.7077 - val_mean_absolute_error: 2
      1736
5541 Epoch 2496/20000
     - 0s - loss: 6.8260 -
5542
     mean_absolute_error: 1.9534 - val_loss
       12.7077 - val_mean_absolute_error: 2
     1735
5543 Epoch 2497/20000
     - 0s - loss: 6.6164 -
5544
     mean_absolute_error: 1.9155 - val_loss
       12.7082 - val_mean_absolute_error: 2
     . 1735
5545 Epoch 2498/20000
     - 0s - loss: 6.3792 -
5546 I
     mean_absolute_error: 1.9087 - val_loss
       12.7080 - val_mean_absolute_error: 2
     1735
5547 Epoch 2499/20000
     - 0s - loss: 7.5335
5548 l
```

```
5548 mean_absolute_error: 1.9706 - val_loss
       12.7090 - val_mean_absolute_error: 2
     1736
5549 Epoch 2500/20000
5550 - 0s - loss: 8.1463 -
     mean_absolute_error: 2.0726 - val_loss
       12.7101 - val_mean_absolute_error: 2
     1737
5551
5552 Epoch 02500: saving model to ./model/
     model_best.h5
5553 Epoch 2501/20000
5554 - 0s - loss: 6.0061 -
     mean_absolute_error: 1.8627 - val_loss
       12.7090 - val_mean_absolute_error: 2
     1736
5555 Epoch 2502/20000
5556 - Os - Loss: 7.0337 -
     mean_absolute_error: 1.9590 - val_loss
       12.7083 - val_mean_absolute_error:
     1735
5557 Epoch 2503/20000
     - 0s - loss: 7.6545 -
5558
     mean_absolute_error: 1.9675 - val_loss
```

```
12.7083 - val_mean_absolute_error: 2
5558
     1735
5559 Epoch 2504/20000
     - 0s - loss: 7.6582 -
5560
     mean_absolute_error: 1.9607 - val_loss
      12.7079 - val_mean_absolute_error: 2
      1735
5561 Epoch 2505/20000
5562
     - 0s - loss: 6.6892 -
     mean_absolute_error: 1.9019 - val_loss
       12.7075 - val_mean_absolute_error: 2
      1735
5563 Epoch 2506/20000
     - 0s - loss: 8.0364 -
5564
     mean_absolute_error: 2.1356 - val_loss
      12.7070 - val_mean_absolute_error: 2
     . 1734
5565 Epoch 2507/20000
     - 0s - loss: 7.2174 -
5566
     mean_absolute_error: 1.8514 - val_loss
       12.7078 - val_mean_absolute_error: 2
     1735
5567 Epoch 2508/20000
5568 - 0s - loss: 7.8502
```

```
5568 mean_absolute_error: 2.0385 - val_loss
       12.7069 - val_mean_absolute_error: 2
     1735
5569 Epoch 2509/20000
5570 - 0s - loss: 6.1105 -
     mean_absolute_error: 1.8965 - val_loss
       12.7055 - val_mean_absolute_error: 2
     1734
5571 Epoch 2510/20000
5572 - Os - Loss: 7.7369 -
     mean_absolute_error: 1.9962 - val_loss
       12.7059 - val_mean_absolute_error: 2
     1734
5573
5574 Epoch 02510: saving model to ./model/
     model_best.h5
5575 Epoch 2511/20000
5576 - 0s - loss: 8.3109 -
     mean_absolute_error: 2.0411 - val_loss
      12.7063 - val_mean_absolute_error:
     1734
5577 Epoch 2512/20000
5578 - 0s - loss: 8.2141 -
     mean_absolute_error: 2.0386 - val_loss
```

```
12.7072 - val_mean_absolute_error: 2
5578
     1735
5579 Epoch 2513/20000
     - 0s - loss: 6.8488 -
5580
     mean_absolute_error: 1.8248 - val_loss
       12.7073 - val_mean_absolute_error: 2
     1735
5581 Epoch 2514/20000
5582
     - 0s - loss: 8.0136 -
     mean_absolute_error: 2.0801 - val_loss
       12.7077 - val_mean_absolute_error: 2
      1735
5583 Epoch 2515/20000
     - 0s - loss: 7.5573 -
5584
     mean_absolute_error: 1.9590 - val_loss
       12.7078 - val_mean_absolute_error: 2
     . 1735
5585 Epoch 2516/20000
     - 0s - loss: 6.5861
5586
     mean_absolute_error: 1.8759 - val_loss
       12.7075 - val_mean_absolute_error: 2
     1734
5587 Epoch 2517/20000
     - 0s - loss: 7.1778 -
5588 l
```

```
5588 mean_absolute_error: 2.0278 - val_loss
       12.7073 - val_mean_absolute_error: 2
      1734
5589 Epoch 2518/20000
5590 - 0s - loss: 8.8181
     mean_absolute_error: 2.0633 - val_loss
       12.7083 - val_mean_absolute_error: 2
     . 1735
5591 Epoch 2519/20000
5592 - 0s - loss: 7.7407 ·
     mean_absolute_error: 2.0585 - val_loss
       12.7077 - val_mean_absolute_error: 2
     1736
5593 Epoch 2520/20000
5594 - 0s - loss: 6.8204
     mean_absolute_error: 1.8337 - val_loss
     12.7081 - val_mean_absolute_error:
     . 1736
5595
5596 Epoch 02520: saving model to ./model/
     model_best.h5
5597 Epoch 2521/20000
5598 - 0s - loss: 6.6776 -
     mean_absolute_error: 1.9550 - val_loss
```

```
12.7085 - val_mean_absolute_error: 2
5598
     1736
5599 Epoch 2522/20000
5600 - 0s - loss: 5.8267 -
     mean_absolute_error: 1.7327 - val_loss
       12.7091 - val_mean_absolute_error: 2
      1737
5601 Epoch 2523/20000
5602
     - 0s - loss: 6.9968 -
     mean_absolute_error: 1.8661 - val_loss
       12.7092 - val_mean_absolute_error: 2
     1737
5603 Epoch 2524/20000
     - 0s - loss: 6.6056 -
5604
     mean_absolute_error: 1.9345 - val_loss
       12.7106 - val_mean_absolute_error: 2
     . 1738
5605 Epoch 2525/20000
     - 0s - loss: 7.9283
5606 l
     mean_absolute_error: 2.0053 - val_loss
       12.7095 - val_mean_absolute_error: 2
     1737
5607 Epoch 2526/20000
5608 - 0s - loss: 8.3138 -
```

```
5608 mean_absolute_error: 2.1166 - val_loss
       12.7100 - val_mean_absolute_error: 2
     1737
5609 Epoch 2527/20000
5610 - 0s - loss: 5.9835 -
     mean_absolute_error: 1.8583 - val_loss
       12.7098 - val_mean_absolute_error: 2
     1737
5611 Epoch 2528/20000
5612 - 0s - loss: 6.9493
     mean_absolute_error: 1.9055 - val_loss
       12.7096 - val_mean_absolute_error: 2
     1737
5613 Epoch 2529/20000
5614 - 0s - loss: 8.7471 -
     mean_absolute_error: 2.0390 - val_loss
      12.7104 - val_mean_absolute_error: 2
     1737
5615 Epoch 2530/20000
5616 - 0s - loss: 9.8494 -
     mean_absolute_error: 2.1264 - val_loss
     : 12.7103 - val_mean_absolute_error:
     . 1737
```

5617

```
5618 Epoch 02530: saving model to ./model/
     model best.h5
5619 Epoch 2531/20000
5620 - 0s - loss: 6.8535 -
     mean_absolute_error: 1.9133 - val_loss
      12.7104 - val_mean_absolute_error: 2
     1737
5621 Epoch 2532/20000
5622
     - 0s - loss: 7.6484 -
     mean_absolute_error: 1.8818 - val_loss
       12.7104 - val_mean_absolute_error: 2
     1738
5623 Epoch 2533/20000
     - 0s - loss: 7.7736 -
5624
     mean_absolute_error: 2.0169 - val_loss
       12.7111 - val_mean_absolute_error: 2
     . 1738
5625 Epoch 2534/20000
5626 - 0s - Loss: 8.6491
     mean_absolute_error: 2.0309 - val_loss
       12.7111 - val_mean_absolute_error: 2
     1738
5627 Epoch 2535/20000
5628 - 0s - loss: 7.2791
```

```
5628 mean_absolute_error: 1.9406 - val_loss
       12.7105 - val_mean_absolute_error: 2
     1738
5629 Epoch 2536/20000
5630 - 0s - loss: 7.1618 -
     mean_absolute_error: 1.9169 - val_loss
       12.7102 - val_mean_absolute_error: 2
     . 1738
5631 Epoch 2537/20000
5632 - 0s - loss: 8.5966 -
     mean_absolute_error: 2.1305 - val_loss
       12.7087 - val_mean_absolute_error: 2
     1737
5633 Epoch 2538/20000
5634 - 0s - loss: 6.7487
     mean_absolute_error: 1.8627 - val_loss
      12.7074 - val_mean_absolute_error: 2
     1736
5635 Epoch 2539/20000
     - 0s - loss: 6.9686 -
5636
     mean_absolute_error: 1.9427 - val_loss
       12.7077 - val_mean_absolute_error:
     1735
5637 Epoch 2540/20000
```

mean_absolute_error: 2.0558 - val_loss : 12.7070 - val_mean_absolute_error: 2 .1735

5647 Epoch 2544/20000

5648 - Os - Loss: 7.0389 -

```
5648 mean_absolute_error: 2.0006 - val_loss
       12.7057 - val_mean_absolute_error: 2
     1734
5649 Epoch 2545/20000
5650 - 0s - loss: 7.8579 -
     mean_absolute_error: 2.0017 - val_loss
       12.7059 - val_mean_absolute_error: 2
     1734
5651 Epoch 2546/20000
5652 - 0s - loss: 6.8798
     mean_absolute_error: 1.8526 - val_loss
       12.7065 - val_mean_absolute_error: 2
     1735
5653 Epoch 2547/20000
5654 - 0s - loss: 7.5889 -
     mean_absolute_error: 2.0257 - val_loss
       12.7056 - val_mean_absolute_error: 2
     1734
5655 Epoch 2548/20000
     - 0s - loss: 8.0666 -
5656 l
     mean_absolute_error: 1.9699 - val_loss
       12.7053 - val_mean_absolute_error:
     1733
5657 Epoch 2549/20000
```

mean_absolute_error: 1.9656 - val_loss 12.7064 - val_mean_absolute_error: 2

1734

5667 Epoch 2553/20000

5668 - 0s - loss: 7.2416 -

```
5668 mean_absolute_error: 2.0190 - val_loss
       12.7064 - val_mean_absolute_error: 2
     1734
5669 Epoch 2554/20000
5670 - 0s - loss: 9.2943 -
     mean_absolute_error: 2.0963 - val_loss
       12.7074 - val_mean_absolute_error: 2
     1734
5671 Epoch 2555/20000
5672 - 0s - loss: 9.0858 -
     mean_absolute_error: 2.1207 - val_loss
       12.7081 - val_mean_absolute_error: 2
     1735
5673 Epoch 2556/20000
5674 - 0s - loss: 7.8341
     mean_absolute_error: 1.9882 - val_loss
      12.7072 - val_mean_absolute_error: 2
     1734
5675 Epoch 2557/20000
5676 - 0s - loss: 7.7312 -
     mean_absolute_error: 2.0277 - val_loss
      12.7077 - val_mean_absolute_error:
     1735
5677 Epoch 2558/20000
```

mean_absolute_error: 1.8908 - val_loss 12.7081 - val_mean_absolute_error: . 1735

5683

5684 Epoch 02560: saving model to ./model/ model_best.h5

5685 Epoch 2561/20000

- 0s - loss: 7.8110 -5686 mean_absolute_error: 1.9769 - val_loss 12.7085 - val_mean_absolute_error: 2 1735

5687 Epoch 2562/20000

5688 - 0s - loss: 7.6322

```
5688 mean_absolute_error: 1.9458 - val_loss
       12.7093 - val_mean_absolute_error: 2
     1736
5689 Epoch 2563/20000
5690 - 0s - loss: 7.3590 -
     mean_absolute_error: 1.9424 - val_loss
       12.7086 - val_mean_absolute_error: 2
     . 1735
5691 Epoch 2564/20000
5692 - 0s - loss: 7.7351
     mean_absolute_error: 2.0384 - val_loss
       12.7083 - val_mean_absolute_error: 2
     1735
5693 Epoch 2565/20000
5694 - 0s - loss: 7.3724
     mean_absolute_error: 1.9303 - val_loss
      12.7085 - val_mean_absolute_error: 2
     1735
5695 Epoch 2566/20000
     - 0s - loss: 6.7820 -
5696
     mean_absolute_error: 1.9092 - val_loss
      12.7087 - val_mean_absolute_error:
     1735
5697 Epoch 2567/20000
```

```
- 0s - loss: 6.9520 -
5698
     mean_absolute_error: 1.9737 - val_loss
       12.7084 - val_mean_absolute_error: 2
      1735
5699 Epoch 2568/20000
5700 - 0s - loss: 6.4638 -
     mean_absolute_error: 1.8704 - val_loss
       12.7071 - val_mean_absolute_error: 2
     1733
5701 Epoch 2569/20000
5702 - 0s - loss: 7.4503 -
     mean_absolute_error: 1.9389 - val_loss
       12.7066 - val_mean_absolute_error: 2
     1733
5703 Epoch 2570/20000
     - 0s - loss: 7.0740 -
5704
     mean_absolute_error: 1.8887 - val_loss
       12.7059 - val_mean_absolute_error: 2
     1732
5705
    Epoch 02570: saving model to ./model/
5706
     model_best.h5
5707 Epoch 2571/20000
5708 - 0s - loss: 7.6852
```

```
5708 mean_absolute_error: 1.9818 - val_loss
       12.7054 - val_mean_absolute_error: 2
     1732
5709 Epoch 2572/20000
5710 - 0s - loss: 7.1049 -
     mean_absolute_error: 1.8996 - val_loss
      12.7047 - val_mean_absolute_error: 2
     . 1732
5711 Epoch 2573/20000
5712 - 0s - loss: 7.3686 -
     mean_absolute_error: 1.9334 - val_loss
      12.7053 - val_mean_absolute_error: 2
     1733
5713 Epoch 2574/20000
5714 - 0s - loss: 8.4558 -
     mean_absolute_error: 2.1368 - val_loss
     : 12.7058 - val_mean_absolute_error: 2
     1733
5715 Epoch 2575/20000
5716 - 0s - loss: 6.1716 -
     mean_absolute_error: 1.8887 - val_loss
     12.7057 - val_mean_absolute_error: 2
     1733
5717 Epoch 2576/20000
```

```
- 0s - loss: 6.6198 -
5718
     mean_absolute_error: 1.8958 - val_loss
       12.7054 - val_mean_absolute_error: 2
     1733
5719 Epoch 2577/20000
5720 - 0s - loss: 8.7799 -
     mean_absolute_error: 2.0677 - val_loss
       12.7061 - val_mean_absolute_error: 2
     1733
5721 Epoch 2578/20000
5722 - Os - Loss: 7.7549 -
     mean_absolute_error: 1.9744 - val_loss
      12.7057 - val_mean_absolute_error: 2
     1733
5723 Epoch 2579/20000
     - 0s - loss: 7.7504 -
5724
     mean_absolute_error: 1.9895 - val_loss
       12.7061 - val_mean_absolute_error: 2
     1733
5725 Epoch 2580/20000
     - 0s - loss: 7.6340 -
5726
     mean_absolute_error: 1.9925 - val_loss
     : 12.7054 - val_mean_absolute_error: 2
     1732
```

```
5727
    Epoch 02580: saving model to ./model/
5728
     model_best.h5
5729 Epoch 2581/20000
5730 - 0s - loss: 6.8208 -
     mean_absolute_error: 1.9748 - val_loss
       12.7058 - val_mean_absolute_error: 2
     1733
5731 Epoch 2582/20000
5732 - 0s - loss: 7.7703 -
     mean_absolute_error: 1.9769 - val_loss
       12.7056 - val_mean_absolute_error: 2
      1733
5733 Epoch 2583/20000
5734 - 0s - loss: 7.8087
     mean_absolute_error: 2.0267 - val_loss
       12.7059 - val_mean_absolute_error: 2
      1734
5735 Epoch 2584/20000
5736 - 0s - loss: 6.2206 -
     mean_absolute_error: 1.8789 - val_loss
       12.7063 - val_mean_absolute_error:
      1734
5737 Epoch 2585/20000
```

```
- 0s - loss: 7.1971 -
5738
     mean_absolute_error: 2.0022 - val_loss
       12.7067 - val_mean_absolute_error: 2
      1735
5739 Epoch 2586/20000
5740 - 0s - loss: 7.9450 -
     mean_absolute_error: 2.0380 - val_loss
       12.7066 - val_mean_absolute_error: 2
     1735
5741 Epoch 2587/20000
5742 - 0s - loss: 8.8403 -
     mean_absolute_error: 2.0907 - val_loss
      12.7061 - val_mean_absolute_error: 2
     1735
5743 Epoch 2588/20000
     - 0s - loss: 8.3846 -
5744
     mean_absolute_error: 2.0957 - val loss
       12.7055 - val_mean_absolute_error: 2
      1734
5745 Epoch 2589/20000
     - 0s - loss: 8.8224 -
5746
     mean_absolute_error: 2.0322 - val_loss
     : 12.7053 - val_mean_absolute_error: 2
     1734
```

```
- 0s - loss: 9.3090 -
5758
     mean_absolute_error: 2.1538 - val_loss
       12.7055 - val_mean_absolute_error: 2
     1735
5759 Epoch 2595/20000
5760 - 0s - loss: 7.0569 -
     mean_absolute_error: 1.9027 - val_loss
       12.7058 - val_mean_absolute_error: 2
     1735
5761 Epoch 2596/20000
5762 - 0s - loss: 8.7998 -
     mean_absolute_error: 2.1195 - val_loss
      12.7070 - val_mean_absolute_error: 2
     1736
5763 Epoch 2597/20000
     - 0s - loss: 7.7370 -
5764
     mean_absolute_error: 1.9718 - val_loss
       12.7064 - val_mean_absolute_error: 2
     1736
5765 Epoch 2598/20000
     - 0s - loss: 7.0526 -
5766
     mean_absolute_error: 1.9252 - val_loss
     12.7055 - val_mean_absolute_error: 2
     1735
```

5777 Epoch 2603/20000

```
- 0s - loss: 7.0480 -
5778
     mean_absolute_error: 1.9312 - val_loss
       12.7048 - val_mean_absolute_error: 2
      1734
5779 Epoch 2604/20000
5780 - 0s - loss: 8.3799 -
     mean_absolute_error: 2.0076 - val_loss
       12.7059 - val_mean_absolute_error: 2
     1735
5781 Epoch 2605/20000
5782 - 0s - loss: 7.8504 -
     mean_absolute_error: 2.0966 - val_loss
       12.7060 - val_mean_absolute_error: 2
     1735
5783 Epoch 2606/20000
     - 0s - loss: 7.4986 -
5784
     mean_absolute_error: 1.9490 - val_loss
       12.7060 - val_mean_absolute_error: 2
     1735
5785 Epoch 2607/20000
     - 0s - loss: 9.9874 -
5786
     mean_absolute_error: 2.1103 - val_loss
      12.7052 - val_mean_absolute_error: 2
     1734
```

```
File - boston01
5787 Epoch 2608/20000
      - 0s - loss: 7.1453 -
5788
     mean_absolute_error: 1.9814 - val_loss
       12.7054 - val_mean_absolute_error: 2
      1734
5789 Epoch 2609/20000
5790 - 0s - loss: 8.1052 -
     mean_absolute_error: 2.0799 - val_loss
       12.7054 - val_mean_absolute_error: 2
      1734
5791 Epoch 2610/20000
5792 - 0s - loss: 8.3012 -
     mean_absolute_error: 2.0450 - val_loss
       12.7051 - val_mean_absolute_error: 2
      . 1734
5793
5794 Epoch 02610: saving model to ./model/
     model_best.h5
5795 Epoch 2611/20000
5796 - 0s - loss: 7.6382 -
     mean_absolute_error: 2.0016 - val_loss
       12.7055 - val_mean_absolute_error:
      1734
5797 Epoch 2612/20000
```

```
- 0s - loss: 6.8654 -
5798
     mean_absolute_error: 1.9131 - val_loss
       12.7067 - val_mean_absolute_error: 2
      1735
5799 Epoch 2613/20000
     - 0s - loss: 6.5587 -
5800 I
     mean_absolute_error: 1.8780 - val_loss
       12.7068 - val_mean_absolute_error: 2
     1735
5801 Epoch 2614/20000
5802 - 0s - loss: 7.7415 -
     mean_absolute_error: 1.9528 - val_loss
       12.7061 - val_mean_absolute_error: 2
     1735
5803 Epoch 2615/20000
     - 0s - loss: 8.4165 -
5804
     mean_absolute_error: 2.1274 - val loss
       12.7051 - val_mean_absolute_error: 2
      1734
5805 Epoch 2616/20000
     - 0s - loss: 8.2752 -
5806
     mean_absolute_error: 2.0215 - val_loss
      12.7062 - val_mean_absolute_error: 2
     1735
```

model_best.h5

5817 Epoch 2621/20000

```
- 0s - loss: 7.3176 -
5818
     mean_absolute_error: 1.9822 - val_loss
       12.7086 - val_mean_absolute_error: 2
      1736
5819 Epoch 2622/20000
5820 - 0s - loss: 6.7999 -
     mean_absolute_error: 1.8927 - val_loss
       12.7090 - val_mean_absolute_error: 2
     1737
5821 Epoch 2623/20000
5822 - Os - Loss: 6.3671 -
     mean_absolute_error: 1.8953 - val_loss
      12.7089 - val_mean_absolute_error: 2
     1737
5823 Epoch 2624/20000
     - 0s - Loss: 6.1665 -
5824
     mean_absolute_error: 1.9064 - val loss
       12.7095 - val_mean_absolute_error: 2
     1737
5825 Epoch 2625/20000
     - 0s - loss: 7.3232 -
5826
     mean_absolute_error: 1.9569 - val_loss
     : 12.7092 - val_mean_absolute_error: 2
     1737
```

12.7108 - val_mean_absolute_error: 2

```
File - boston01
5836 . 1739
5837
5838 Epoch 02630: saving model to ./model/
     model_best.h5
5839 Epoch 2631/20000
5840 - 0s - loss: 6.7979 -
     mean_absolute_error: 1.9278 - val_loss
       12.7105 - val_mean_absolute_error: 2
      1738
5841 Epoch 2632/20000
5842 - 0s - loss: 7.2256 -
     mean_absolute_error: 1.9238 - val_loss
       12.7109 - val_mean_absolute_error: 2
      1739
5843 Epoch 2633/20000
      - 0s - loss: 7.6421 -
5844
     mean_absolute_error: 2.0118 - val_loss
       12.7104 - val_mean_absolute_error: 2
      1739
5845 Epoch 2634/20000
      - 0s - loss: 8.5240 -
5846
     mean_absolute_error: 2.0843 - val_loss
     : 12.7105 - val_mean_absolute_error: 2
      1739
```

12.7105 - val_mean_absolute_error: 2

```
File - boston01
5856 . 1738
5857 Epoch 2640/20000
      - 0s - loss: 8.3496
5858
     mean_absolute_error: 2.0576 - val_loss
       12.7111 - val_mean_absolute_error: 2
      1739
5859
5860 Epoch 02640: saving model to ./model/
     model_best.h5
5861 Epoch 2641/20000
5862 - 0s - loss: 6.6622 -
     mean_absolute_error: 1.8607 - val_loss
       12.7108 - val_mean_absolute_error:
      1739
5863 Epoch 2642/20000
      - 0s - loss: 9.6320 -
5864
     mean_absolute_error: 2.2277 - val_loss
       12.7105 - val_mean_absolute_error: 2
      1738
5865 Epoch 2643/20000
      - 0s - loss: 6.7167 -
5866
     mean_absolute_error: 1.8826 - val_loss
      12.7109 - val_mean_absolute_error: 2
      1738
```

5876 - 0s - loss: 6.6938 mean_absolute_error: 1.9538 - val_loss 12.7104 - val_mean_absolute_error: 2

```
File - boston01
5876 . 1738
5877 Epoch 2649/20000
5878 - 0s - loss: 8.5205
     mean_absolute_error: 2.1518 - val_loss
       12.7108 - val_mean_absolute_error: 2
      1739
5879 Epoch 2650/20000
5880 - 0s - Loss: 8.1579 -
     mean_absolute_error: 2.0208 - val_loss
      12.7105 - val_mean_absolute_error:
      . 1738
5881
5882 Epoch 02650: saving model to ./model/
     model best.h5
5883 Epoch 2651/20000
      - 0s - loss: 8.3615 -
5884
     mean_absolute_error: 2.0919 - val_loss
       12.7113 - val_mean_absolute_error: 2
      1739
5885 Epoch 2652/20000
      - 0s - loss: 6.6113 -
5886
     mean_absolute_error: 1.8767 - val_loss
      12.7110 - val_mean_absolute_error: 2
      1739
```

12.7093 - val_mean_absolute_error: 2

```
File - boston01
5896 . 1737
5897 Epoch 2658/20000
      - 0s - loss: 8.4586
5898
     mean_absolute_error: 2.1044 - val_loss
       12.7095 - val_mean_absolute_error: 2
      1737
5899 Epoch 2659/20000
5900 - 0s - loss: 7.2375
     mean_absolute_error: 1.9871 - val_loss
       12.7094 - val_mean_absolute_error:
      1738
5901 Epoch 2660/20000
      - 0s - loss: 8.8092 -
5902
     mean_absolute_error: 2.1541 - val_loss
       12.7101 - val_mean_absolute_error:
      1738
5903
5904 Epoch 02660: saving model to ./model/
     model_best.h5
5905 Epoch 2661/20000
      - 0s - loss: 7.9891 -
5906
     mean_absolute_error: 1.9608 - val_loss
       12.7102 - val_mean_absolute_error: 2
      1738
```

5915 Epoch 2666/20000

5916 - Os - Loss: 7.1132 - mean_absolute_error: 1.9798 - val_loss : 12.7106 - val_mean_absolute_error: 2

```
File - boston01
5916 . 1739
5917 Epoch 2667/20000
     - 0s - loss: 8.2289
5918
     mean_absolute_error: 2.0600 - val_loss
       12.7119 - val_mean_absolute_error: 2
      1739
5919 Epoch 2668/20000
5920 - 0s - loss: 5.6803 ·
     mean_absolute_error: 1.7522 - val_loss
       12.7126 - val_mean_absolute_error:
      1740
5921 Epoch 2669/20000
5922 - 0s - loss: 7.6718 -
     mean_absolute_error: 1.9032 - val_loss
       12.7115 - val_mean_absolute_error:
      1739
5923 Epoch 2670/20000
      - 0s - loss: 6.6806 -
5924
     mean_absolute_error: 1.9758 - val_loss
       12.7108 - val_mean_absolute_error:
      1739
5925
     Epoch 02670: saving model to ./model/
5926
     model_best.h5
```

Page 595 of 1152

mean_absolute_error: 2.1077 - val_loss

12.7094 - val_mean_absolute_error: 2

```
File - boston01
5936 . 1737
5937 Epoch 2676/20000
5938
      - 0s - loss: 7.1845
     mean_absolute_error: 1.9460 - val_loss
       12.7096 - val_mean_absolute_error: 2
      1737
5939 Epoch 2677/20000
5940 - 0s - Loss: 7.7692 ·
     mean_absolute_error: 2.0325 - val_loss
       12.7094 - val_mean_absolute_error:
      1737
5941 Epoch 2678/20000
5942 l
      - 0s - loss: 7.0187 -
     mean_absolute_error: 1.9070 - val_loss
       12.7096 - val_mean_absolute_error:
      1737
5943 Epoch 2679/20000
      - 0s - loss: 8.9166 -
5944
     mean_absolute_error: 2.1206 - val_loss
       12.7108 - val_mean_absolute_error:
      1738
5945 Epoch 2680/20000
      - 0s - loss: 8.8586 -
5946
     mean_absolute_error: 2.0604 - val_l<u>oss</u>
```

```
12.7108 - val_mean_absolute_error: 2
5946
     1739
5947
5948 Epoch 02680: saving model to ./model/
     model_best.h5
5949 Epoch 2681/20000
     - 0s - loss: 6.1256 -
5950
     mean_absolute_error: 1.9154 - val_loss
       12.7103 - val_mean_absolute_error: 2
     1739
5951 Epoch 2682/20000
     - 0s - loss: 7.4697 -
5952 l
     mean_absolute_error: 2.0218 - val_loss
       12.7107 - val_mean_absolute_error: 2
     1738
5953 Epoch 2683/20000
     - 0s - loss: 7.6344 -
5954
     mean_absolute_error: 2.0269 - val_loss
      12.7100 - val_mean_absolute_error: 2
     1737
5955 Epoch 2684/20000
5956 - 0s - Loss: 6.9272
     mean_absolute_error: 1.9034 - val_loss
      12.7093 - val_mean_absolute_error: 2
```

```
File - boston01
5956 . 1736
5957 Epoch 2685/20000
      - 0s - loss: 6.3437
5958
     mean_absolute_error: 1.9384 - val_loss
       12.7092 - val_mean_absolute_error: 2
      1737
5959 Epoch 2686/20000
5960 - 0s - loss: 7.2647
     mean_absolute_error: 1.8868 - val_loss
       12.7095 - val_mean_absolute_error:
      1737
5961 Epoch 2687/20000
5962 l
      - 0s - loss: 8.4062 -
     mean_absolute_error: 2.1484 - val_loss
       12.7091 - val_mean_absolute_error:
      1737
5963 Epoch 2688/20000
5964 - 0s - loss: 7.0077 -
     mean_absolute_error: 1.9357 - val_loss
       12.7092 - val_mean_absolute_error:
      1737
5965 Epoch 2689/20000
      - 0s - loss: 7.1645 -
5966
     mean_absolute_error: 1.9852 - val_l<u>oss</u>
```

```
12.7082 - val_mean_absolute_error: 2
5966
     1736
5967 Epoch 2690/20000
     - 0s - loss: 7.5699 -
5968
     mean_absolute_error: 1.9626 - val_loss
      12.7086 - val_mean_absolute_error: 2
     . 1735
5969
5970 Epoch 02690: saving model to ./model/
     model best.h5
5971 Epoch 2691/20000
5972 - 0s - loss: 7.6184
     mean_absolute_error: 1.9909 - val_loss
       12.7079 - val_mean_absolute_error: 2
     1735
5973 Epoch 2692/20000
     - Os - Loss: 7.3599 -
5974
     mean_absolute_error: 1.9358 - val_loss
       12.7071 - val_mean_absolute_error: 2
     1734
5975 Epoch 2693/20000
5976 - 0s - Loss: 6.9782
     mean_absolute_error: 1.8765 - val_loss
      12.7066 - val_mean_absolute_error: 2
```

```
File - boston01
5976 . 1734
5977 Epoch 2694/20000
5978 - 0s - loss: 5.4424
     mean_absolute_error: 1.7260 - val_loss
       12.7058 - val_mean_absolute_error: 2
      1733
5979 Epoch 2695/20000
5980 - 0s - Loss: 8.6003 ·
     mean_absolute_error: 2.0214 - val_loss
       12.7071 - val_mean_absolute_error:
      1733
5981 Epoch 2696/20000
5982
      - 0s - loss: 5.8552 -
     mean_absolute_error: 1.8184 - val_loss
       12.7066 - val_mean_absolute_error:
      1733
5983 Epoch 2697/20000
      - 0s - loss: 6.4580 -
5984
     mean_absolute_error: 1.9042 - val_loss
       12.7070 - val_mean_absolute_error:
      1734
5985 Epoch 2698/20000
      - 0s - loss: 7.8525 -
5986
     mean_absolute_error: 2.1216 - val_loss
```

```
12.7073 - val_mean_absolute_error: 2
5986
     1734
5987 Epoch 2699/20000
     - 0s - loss: 8.1601 -
5988
     mean_absolute_error: 2.0195 - val_loss
       12.7071 - val_mean_absolute_error: 2
      1734
5989 Epoch 2700/20000
5990
     - 0s - loss: 8.1560 -
     mean_absolute_error: 2.1354 - val_loss
       12.7083 - val_mean_absolute_error: 2
     1735
5991
    Epoch 02700: saving model to ./model/
5992
     model_best.h5
5993 Epoch 2701/20000
     - 0s - loss: 7.5818 -
5994
     mean_absolute_error: 1.9593 - val_loss
       12.7074 - val_mean_absolute_error: 2
     1734
5995 Epoch 2702/20000
5996 - 0s - loss: 7.3264
     mean_absolute_error: 1.9986 - val_loss
      12.7073 - val_mean_absolute_error: 2
```

```
File - boston01
5996 . 1734
5997 Epoch 2703/20000
5998 - 0s - loss: 7.0844
     mean_absolute_error: 1.8837 - val_loss
       12.7073 - val_mean_absolute_error: 2
      1734
5999 Epoch 2704/20000
6000 - 0s - loss: 6.7579 -
     mean_absolute_error: 1.9199 - val_loss
       12.7070 - val_mean_absolute_error:
      1733
6001 Epoch 2705/20000
6002 - 0s - loss: 7.1782 -
     mean_absolute_error: 2.0143 - val_loss
       12.7068 - val_mean_absolute_error: 2
      1733
6003 Epoch 2706/20000
6004 - 0s - loss: 7.3943 -
     mean_absolute_error: 1.9881 - val_loss
       12.7067 - val_mean_absolute_error:
      1733
6005 Epoch 2707/20000
     - 0s - loss: 7.6018 -
6006
     mean_absolute_error: 2.0331 - val_l<u>oss</u>
```

```
12.7059 - val_mean_absolute_error: 2
6006
     1732
6007 Epoch 2708/20000
     - 0s - loss: 7.3820 -
6008
     mean_absolute_error: 2.0076 - val_loss
      12.7063 - val_mean_absolute_error: 2
      1732
6009 Epoch 2709/20000
     - 0s - loss: 7.6764 -
6010 l
     mean_absolute_error: 1.9225 - val_loss
       12.7068 - val_mean_absolute_error: 2
      1733
6011 Epoch 2710/20000
     - 0s - loss: 6.5951 -
6012
     mean_absolute_error: 1.8786 - val_loss
      12.7067 - val_mean_absolute_error: 2
     . 1733
6013
6014 Epoch 02710: saving model to ./model/
     model_best.h5
6015 Epoch 2711/20000
6016 - 0s - loss: 6.8430
     mean_absolute_error: 1.9321 - val_loss
     12.7061 - val_mean_absolute_error: 2
```

```
File - boston01
6016 . 1733
6017 Epoch 2712/20000
     - 0s - loss: 6.0010 -
6018
     mean_absolute_error: 1.8231 - val_loss
       12.7066 - val_mean_absolute_error: 2
      1733
6019 Epoch 2713/20000
6020 - 0s - Loss: 9.7371
     mean_absolute_error: 2.1693 - val_loss
       12.7063 - val_mean_absolute_error:
      1732
6021 Epoch 2714/20000
6022 - 0s - loss: 8.2704 -
     mean_absolute_error: 2.0598 - val_loss
       12.7065 - val_mean_absolute_error: 2
      1732
6023 Epoch 2715/20000
6024 - 0s - loss: 7.5984 -
     mean_absolute_error: 1.9368 - val_loss
       12.7065 - val_mean_absolute_error:
      1732
6025 Epoch 2716/20000
     - 0s - loss: 6.5696 -
6026
     mean_absolute_error: 1.8779 - val_l<u>oss</u>
```

```
12.7067 - val_mean_absolute_error: 2
6026
     1732
6027 Epoch 2717/20000
     - 0s - loss: 6.5663 -
6028
     mean_absolute_error: 1.9140 - val_loss
       12.7068 - val_mean_absolute_error: 2
     1733
6029 Epoch 2718/20000
6030
     - 0s - loss: 6.2497 -
     mean_absolute_error: 1.8799 - val_loss
       12.7070 - val_mean_absolute_error: 2
     1733
6031 Epoch 2719/20000
     - 0s - loss: <u>6.7516 -</u>
6032
     mean_absolute_error: 1.8838 - val_loss
       12.7066 - val_mean_absolute_error: 2
     1733
6033 Epoch 2720/20000
     - 0s - loss: 9.8542 -
6034
     mean_absolute_error: 2.1996 - val_loss
       12.7069 - val_mean_absolute_error: 2
     1734
6035
6036 Epoch 02720: saving model to ./model/
```

```
File - boston01
6036 model_best.h5
6037 Epoch 2721/20000
6038 - 0s - loss: 7.8399
     mean_absolute_error: 1.9524 - val_loss
       12.7066 - val_mean_absolute_error: 2
      1733
6039 Epoch 2722/20000
6040 - 0s - Loss: 6.3257
     mean_absolute_error: 1.9101 - val_loss
       12.7067 - val_mean_absolute_error:
      1733
6041 Epoch 2723/20000
6042 - 0s - loss: 6.8887 -
     mean_absolute_error: 1.9265 - val_loss
       12.7072 - val_mean_absolute_error: 2
      1733
6043 Epoch 2724/20000
6044 - 0s - loss: 7.1622 -
     mean_absolute_error: 1.9960 - val_loss
       12.7069 - val_mean_absolute_error:
      1733
6045 Epoch 2725/20000
6046 - 0s - loss: 6.7527 -
     mean_absolute_error: 1.8572 - val_loss
```

```
12.7069 - val_mean_absolute_error: 2
6046
     1732
6047 Epoch 2726/20000
     - 0s - loss: 7.5835 -
6048
     mean_absolute_error: 1.9961 - val_loss
      12.7075 - val_mean_absolute_error: 2
     1733
6049 Epoch 2727/20000
6050
     - 0s - loss: 6.4885 -
     mean_absolute_error: 1.8750 - val_loss
       12.7075 - val_mean_absolute_error: 2
     1733
6051 Epoch 2728/20000
     - 0s - loss: 7.6992 -
6052
     mean_absolute_error: 2.0507 - val_loss
      12.7069 - val_mean_absolute_error: 2
     . 1732
6053 Epoch 2729/20000
     - 0s - loss: 7.2205 -
6054
     mean_absolute_error: 1.9638 - val_loss
       12.7062 - val_mean_absolute_error: 2
     1732
6055 Epoch 2730/20000
6056 - 0s - loss: 8.0527
```

```
6056 mean_absolute_error: 2.1027 - val_loss
       12.7060 - val_mean_absolute_error: 2
     1732
6057
6058 Epoch 02730: saving model to ./model/
     model_best.h5
6059 Epoch 2731/20000
6060 - 0s - loss: 8.3362 -
     mean_absolute_error: 1.9665 - val_loss
       12.7063 - val_mean_absolute_error: 2
     1732
6061 Epoch 2732/20000
6062 - 0s - loss: 6.7015 -
     mean_absolute_error: 1.8592 - val_loss
       12.7064 - val_mean_absolute_error: 2
      1732
6063 Epoch 2733/20000
6064 - 0s - loss: 7.4036 -
     mean_absolute_error: 1.8757 - val_loss
       12.7072 - val_mean_absolute_error:
     1733
6065 Epoch 2734/20000
    - 0s - loss: 9.3768 -
6066
     mean_absolute_error: 2.1558 - val_loss
```

```
12.7065 - val_mean_absolute_error: 2
6066
     1733
6067 Epoch 2735/20000
     - 0s - loss: 7.4300 -
6068
     mean_absolute_error: 1.9143 - val_loss
      12.7063 - val_mean_absolute_error: 2
     1732
6069 Epoch 2736/20000
6070
     - 0s - loss: 9.2928 -
     mean_absolute_error: 2.1359 - val_loss
       12.7061 - val_mean_absolute_error: 2
     1732
6071 Epoch 2737/20000
     - Os - Loss: 8.1539 -
6072
     mean_absolute_error: 2.0989 - val_loss
      12.7054 - val_mean_absolute_error: 2
     1732
6073 Epoch 2738/20000
     - 0s - loss: 6.6231
6074
     mean_absolute_error: 1.8933 - val_loss
       12.7056 - val_mean_absolute_error: 2
     1732
6075 Epoch 2739/20000
6076 - 0s - loss: 7.4907 -
```

```
6076 mean_absolute_error: 1.9292 - val_loss
       12.7060 - val_mean_absolute_error: 2
      1733
6077 Epoch 2740/20000
     - 0s - loss: 6.6996 -
6078
     mean_absolute_error: 1.8930 - val_loss
       12.7048 - val_mean_absolute_error: 2
     1732
6079
6080 Epoch 02740: saving model to ./model/
     model_best.h5
6081 Epoch 2741/20000
6082 - 0s - loss: 6.8277 -
     mean_absolute_error: 1.9563 - val_loss
       12.7040 - val_mean_absolute_error: 2
      1732
6083 Epoch 2742/20000
6084 - 0s - loss: 7.9472 -
     mean_absolute_error: 1.9139 - val_loss
       12.7028 - val_mean_absolute_error:
     1730
6085 Epoch 2743/20000
     - 0s - loss: 7.1749 -
6086
     mean_absolute_error: 1.9288 - val_loss
```

6094 - 0s - Loss: 6.2061 - mean_absolute_error: 1.7673 - val_loss : 12.7016 - val_mean_absolute_error: 2 .1729

6095 Epoch 2748/20000

6096 <u>- 0s - Loss:</u> 6.9703 -

```
6096 mean_absolute_error: 1.9012 - val_loss
       12.7004 - val_mean_absolute_error: 2
      1729
6097 Epoch 2749/20000
    - 0s - loss: 7.7992 -
6098
     mean_absolute_error: 2.0202 - val_loss
       12.7001 - val_mean_absolute_error: 2
     1729
6099 Epoch 2750/20000
6100 - 0s - loss: 8.9262 -
     mean_absolute_error: 2.0818 - val_loss
       12.6996 - val_mean_absolute_error: 2
     1728
6101
6102 Epoch 02750: saving model to ./model/
     model_best.h5
6103 Epoch 2751/20000
6104 - 0s - loss: 8.8714 -
     mean_absolute_error: 2.1422 - val_l<u>oss</u>
       12.6998 - val_mean_absolute_error:
     1728
6105 Epoch 2752/20000
6106 - 0s - loss: 7.1941 -
     mean_absolute_error: 1.9261 - val_loss
```

```
12.7002 - val_mean_absolute_error: 2
6106
     1729
6107 Epoch 2753/20000
     - 0s - loss: 8.8342 -
6108 l
     mean_absolute_error: 2.0590 - val_loss
       12.6993 - val_mean_absolute_error: 2
      1728
6109 Epoch 2754/20000
     - 0s - loss: 7.3694 -
6110 l
     mean_absolute_error: 1.8707 - val_loss
       12.6986 - val_mean_absolute_error: 2
      1728
6111 Epoch 2755/20000
     - 0s - loss: 9.1290 -
6112
     mean_absolute_error: 2.0938 - val_loss
       12.6979 - val_mean_absolute_error: 2
     . 1727
6113 Epoch 2756/20000
6114 - 0s - loss: 8.1634 -
     mean_absolute_error: 2.0458 - val_loss
       12.6981 - val_mean_absolute_error: 2
     1727
6115 Epoch 2757/20000
6116 - 0s - loss: 7.8431
```

```
6116 mean_absolute_error: 1.9612 - val_loss
       12.6980 - val_mean_absolute_error: 2
      1727
6117 Epoch 2758/20000
     - 0s - loss: 7.9137 -
6118
     mean_absolute_error: 2.1073 - val_loss
       12.6984 - val_mean_absolute_error: 2
     1728
6119 Epoch 2759/20000
6120 - 0s - loss: 8.1246 -
     mean_absolute_error: 2.0173 - val_loss
       12.6978 - val_mean_absolute_error: 2
     . 1727
6121 Epoch 2760/20000
6122 - 0s - loss: 8.3122 -
     mean_absolute_error: 1.9801 - val_loss
       12.6970 - val_mean_absolute_error: 2
     . 1727
6123
6124 Epoch 02760: saving model to ./model/
     model_best.h5
6125 Epoch 2761/20000
6126 - 0s - loss: 7.7972 -
     mean_absolute_error: 1.9665 - val_loss
```

```
12.6972 - val_mean_absolute_error: 2
6126
     1728
6127 Epoch 2762/20000
     - Os - loss: 6.6942 -
6128
     mean_absolute_error: 1.8742 - val_loss
       12.6969 - val_mean_absolute_error: 2
      1728
6129 Epoch 2763/20000
6130
     - 0s - loss: 9.2083 -
     mean_absolute_error: 2.1208 - val_loss
       12.6977 - val_mean_absolute_error: 2
     1728
6131 Epoch 2764/20000
     - 0s - loss: 8.3846 -
6132
     mean_absolute_error: 2.0452 - val_loss
       12.6981 - val_mean_absolute_error: 2
     1729
6133 Epoch 2765/20000
     - 0s - loss: 6.8881
6134
     mean_absolute_error: 1.9161 - val_loss
       12.6982 - val_mean_absolute_error: 2
     1729
6135 Epoch 2766/20000
6136 - 0s - loss: 5.6769 -
```

```
6136 mean_absolute_error: 1.7783 - val_loss
       12.6982 - val_mean_absolute_error: 2
      1729
6137 Epoch 2767/20000
     - 0s - loss: 7.8321 -
6138 I
     mean_absolute_error: 1.8903 - val_loss
       12.6977 - val_mean_absolute_error: 2
     . 1728
6139 Epoch 2768/20000
6140 - 0s - loss: 7.6524
     mean_absolute_error: 1.9907 - val_loss
       12.6984 - val_mean_absolute_error: 2
     1729
6141 Epoch 2769/20000
6142 - 0s - loss: 7.5645 -
     mean_absolute_error: 2.0306 - val_loss
       12.6981 - val_mean_absolute_error: 2
     1728
6143 Epoch 2770/20000
6144 - 0s - loss: 7.8019 -
     mean_absolute_error: 2.0494 - val_loss
     : 12.6981 - val_mean_absolute_error:
     . 1728
6145
```

Page 616 of 1152

```
6146 Epoch 02770: saving model to ./model/
     model best.h5
6147 Epoch 2771/20000
6148 - 0s - loss: 8.6208 -
     mean_absolute_error: 2.0803 - val_loss
       12.6987 - val_mean_absolute_error: 2
     1728
6149 Epoch 2772/20000
     - 0s - loss: 7.1044 -
6150
     mean_absolute_error: 1.9525 - val_loss
       12.6993 - val_mean_absolute_error: 2
     1729
6151 Epoch 2773/20000
     - 0s - loss: 7.8203 -
6152
     mean_absolute_error: 2.0396 - val_loss
       12.6993 - val_mean_absolute_error: 2
     . 1729
6153 Epoch 2774/20000
6154 - 0s - loss: 6.2770 -
     mean_absolute_error: 1.8722 - val_loss
       12.6990 - val_mean_absolute_error: 2
     1728
6155 Epoch 2775/20000
6156 - 0s - Loss: 7.2443
```

```
6156 mean_absolute_error: 1.9090 - val_loss
       12.6989 - val_mean_absolute_error: 2
      1729
6157 Epoch 2776/20000
6158 - 0s - loss: 7.6186 -
     mean_absolute_error: 2.0055 - val_loss
       12.6998 - val_mean_absolute_error: 2
     1729
6159 Epoch 2777/20000
6160 - 0s - loss: 6.8077 -
     mean_absolute_error: 1.8635 - val_loss
       12.6992 - val_mean_absolute_error: 2
     . 1728
6161 Epoch 2778/20000
6162 - 0s - loss: 7.4107 -
     mean_absolute_error: 1.9525 - val_loss
       12.6982 - val_mean_absolute_error: 2
     1727
6163 Epoch 2779/20000
6164 - 0s - loss: 7.5584 -
     mean_absolute_error: 1.9650 - val_loss
       12.6993 - val_mean_absolute_error:
      1729
6165 Epoch 2780/20000
```

6174 - 0s - Loss: 8.2625 - mean_absolute_error: 2.0967 - val_loss : 12.6986 - val_mean_absolute_error: 2 . 1730

6175 Epoch 2784/20000

6176 - 0s - loss: 8.9540 -

```
6176 mean_absolute_error: 2.0764 - val_loss
       12.6991 - val_mean_absolute_error: 2
      1730
6177 Epoch 2785/20000
    - 0s - loss: 7.1921
6178
     mean_absolute_error: 1.9613 - val_loss
       12.6998 - val_mean_absolute_error: 2
     1731
6179 Epoch 2786/20000
6180 - 0s - loss: 6.8899 ·
     mean_absolute_error: 1.9399 - val_loss
       12.6994 - val_mean_absolute_error: 2
     . 1731
6181 Epoch 2787/20000
6182 - Os - Loss: 7.2372 -
     mean_absolute_error: 1.9425 - val_loss
       12.6993 - val_mean_absolute_error: 2
     1730
6183 Epoch 2788/20000
6184 - 0s - loss: 8.0267 -
     mean_absolute_error: 2.0290 - val_loss
       12.6994 - val_mean_absolute_error:
     1730
6185 Epoch 2789/20000
```

```
File - boston01
      - 0s - loss: 8.6078 -
6186
     mean_absolute_error: 2.2038 - val_loss
       12.7000 - val_mean_absolute_error: 2
      1731
6187 Epoch 2790/20000
      - 0s - loss: 7.3700 -
6188
     mean_absolute_error: 1.9784 - val_loss
       12.6998 - val_mean_absolute_error:
      . 1731
6189
6190 Epoch 02790: saving model to ./model/
     model_best.h5
6191 Epoch 2791/20000
      - 0s - loss: 7.7546 -
6192
     mean_absolute_error: 2.0897 - val_loss
       12.7010 - val_mean_absolute_error: 2
      1732
6193 Epoch 2792/20000
      - 0s - loss: 6.8251
6194 I
     mean_absolute_error: 1.9781 - val_loss
       12.7006 - val_mean_absolute_error: 2
      1732
6195 Epoch 2793/20000
6196 - Os - Loss: 8.5202
```

```
6196 mean_absolute_error: 2.0271 - val_loss
       12.6992 - val_mean_absolute_error: 2
      1731
6197 Epoch 2794/20000
6198 - 0s - loss: 7.1385 -
     mean_absolute_error: 1.9329 - val_loss
       12.6991 - val_mean_absolute_error: 2
     . 1731
6199 Epoch 2795/20000
6200 - 0s - loss: 7.1211 -
     mean_absolute_error: 1.9471 - val_loss
       12.6996 - val_mean_absolute_error: 2
     . 1732
6201 Epoch 2796/20000
6202 - Os - Loss: 7.3292 -
     mean_absolute_error: 1.9267 - val_loss
       12.6997 - val_mean_absolute_error: 2
     1731
6203 Epoch 2797/20000
6204 - 0s - loss: 7.3700 -
     mean_absolute_error: 2.0571 - val_loss
       12.6998 - val_mean_absolute_error:
     1732
6205 Epoch 2798/20000
```

6214 - 0s - loss: 9.9954
mean_absolute_error: 2.2621 - val_loss
: 12.7007 - val_mean_absolute_error: 2
.1733

6215 Epoch 2802/20000
6216 - 0s - loss: 7.5759 -

```
6216 mean_absolute_error: 1.9755 - val_loss
       12.6998 - val_mean_absolute_error: 2
      1732
6217 Epoch 2803/20000
    - 0s - loss: 7.7570 -
6218
     mean_absolute_error: 2.0100 - val_loss
       12.7006 - val_mean_absolute_error: 2
     . 1733
6219 Epoch 2804/20000
6220 - 0s - loss: 9.0737 -
     mean_absolute_error: 2.0732 - val_loss
       12.7002 - val_mean_absolute_error: 2
     1732
6221 Epoch 2805/20000
6222 - 0s - loss: 5.8263 -
     mean_absolute_error: 1.8265 - val_loss
       12.6995 - val_mean_absolute_error: 2
     1732
6223 Epoch 2806/20000
6224 - 0s - loss: 8.3343 -
     mean_absolute_error: 2.1275 - val_loss
       12.6996 - val_mean_absolute_error:
     1732
6225 Epoch 2807/20000
```

6233
6234 Epoch 02810: saving model to ./model/
model_best.h5
6235 Epoch 2811/20000
6236 - 0s - loss: 7.4410 -

```
6236 mean_absolute_error: 1.9802 - val_loss
       12.6985 - val_mean_absolute_error: 2
     1730
6237 Epoch 2812/20000
     - 0s - loss: 7.1104 -
6238
     mean_absolute_error: 1.9746 - val_loss
       12.6969 - val_mean_absolute_error: 2
     1729
6239 Epoch 2813/20000
6240 - 0s - loss: 7.0485 -
     mean_absolute_error: 2.0021 - val_loss
       12.6955 - val_mean_absolute_error: 2
     . 1728
6241 Epoch 2814/20000
6242 - 0s - loss: 7.4546 -
     mean_absolute_error: 1.9756 - val_loss
       12.6958 - val_mean_absolute_error: 2
     1728
6243 Epoch 2815/20000
6244 - 0s - loss: 7.1119 -
     mean_absolute_error: 1.9646 - val_loss
       12.6958 - val_mean_absolute_error:
     1728
6245 Epoch 2816/20000
```

```
- 0s - loss: 8.6954 -
6246
     mean_absolute_error: 2.1458 - val_loss
       12.6960 - val_mean_absolute_error: 2
      1728
6247 Epoch 2817/20000
     - 0s - Loss: 7.5088 -
6248
     mean_absolute_error: 1.9978 - val_loss
       12.6959 - val_mean_absolute_error: 2
     1728
6249 Epoch 2818/20000
6250 - 0s - loss: 7.0206 -
     mean_absolute_error: 1.9151 - val_loss
       12.6958 - val_mean_absolute_error: 2
     1728
6251 Epoch 2819/20000
     - 0s - loss: 7.2207 -
6252
     mean_absolute_error: 1.9460 - val_loss
       12.6959 - val_mean_absolute_error: 2
      1728
6253 Epoch 2820/20000
     - 0s - loss: 6.5411 -
6254
     mean_absolute_error: 1.8014 - val_loss
     : 12.6959 - val_mean_absolute_error: 2
     1728
```

```
6255
6256 Epoch 02820: saving model to ./model/
     model_best.h5
6257 Epoch 2821/20000
    - 0s - loss: 8.7157 -
6258
     mean_absolute_error: 2.0507 - val_loss
       12.6959 - val_mean_absolute_error: 2
     1728
6259 Epoch 2822/20000
6260 - 0s - loss: 6.2020 -
     mean_absolute_error: 1.8646 - val_loss
       12.6970 - val_mean_absolute_error: 2
      1729
6261 Epoch 2823/20000
6262 - 0s - loss: 7.1208
     mean_absolute_error: 1.9264 - val_loss
       12.6969 - val_mean_absolute_error:
      1729
6263 Epoch 2824/20000
6264 - 0s - loss: 5.9004 -
     mean_absolute_error: 1.7555 - val_loss
       12.6974 - val_mean_absolute_error:
      1729
6265 Epoch 2825/20000
```

```
- 0s - loss: 7.4494 -
6266
     mean_absolute_error: 1.8882 - val_loss
       12.6968 - val_mean_absolute_error: 2
      1729
6267 Epoch 2826/20000
     - 0s - loss: 6.6904 -
6268
     mean_absolute_error: 1.9231 - val_loss
       12.6969 - val_mean_absolute_error: 2
      1729
6269 Epoch 2827/20000
6270 - 0s - loss: 8.9629 -
     mean_absolute_error: 2.1091 - val_loss
       12.6974 - val_mean_absolute_error: 2
     1730
6271 Epoch 2828/20000
     - 0s - Loss: 8.4146 -
6272
     mean_absolute_error: 2.0404 - val_loss
       12.6989 - val_mean_absolute_error: 2
      1730
6273 Epoch 2829/20000
     - 0s - loss: 6.5266 -
6274
     mean_absolute_error: 1.9449 - val_loss
     : 12.6994 - val_mean_absolute_error: 2
     1730
```

```
File - boston01
6275 Epoch 2830/20000
      - 0s - loss: 7.3975 -
6276
     mean_absolute_error: 2.0769 - val_loss
       12.6995 - val_mean_absolute_error: 2
      1730
6277
     Epoch 02830: saving model to ./model/
6278
     model_best.h5
6279 Epoch 2831/20000
6280 - 0s - loss: 6.2086 -
     mean_absolute_error: 1.8794 - val_loss
       12.6980 - val_mean_absolute_error: 2
      1729
6281 Epoch 2832/20000
6282 - 0s - loss: 7.9916 -
     mean_absolute_error: 2.0287 - val_loss
       12.6975 - val_mean_absolute_error: 2
      1728
6283 Epoch 2833/20000
      - 0s - loss: 7.5146 -
6284 l
     mean_absolute_error: 1.9193 - val_loss
       12.6966 - val_mean_absolute_error:
      1727
6285 Epoch 2834/20000
```

6293 Epoch 2838/20000

- 0s - loss: 8.1659 -6294 mean_absolute_error: 2.1272 - val_loss : 12.6966 - val_mean_absolute_error: 2 1726

```
File - boston01
6295 Epoch 2839/20000
      - 0s - loss: 7.6877 -
6296
     mean_absolute_error: 2.0019 - val_loss
       12.6966 - val_mean_absolute_error: 2
      1726
6297 Epoch 2840/20000
      - 0s - loss: 8.7165 -
6298
     mean_absolute_error: 2.0920 - val_loss
       12.6971 - val_mean_absolute_error: 2
      . 1727
6299
6300 Epoch 02840: saving model to ./model/
     model_best.h5
6301 Epoch 2841/20000
6302 - 0s - loss: 6.0594
     mean_absolute_error: 1.7892 - val_loss
       12.6965 - val_mean_absolute_error: 2
      1727
6303 Epoch 2842/20000
     - 0s - loss: 7.3322 -
6304
     mean_absolute_error: 2.0674 - val_loss
       12.6971 - val_mean_absolute_error:
      1727
6305 Epoch 2843/20000
```

```
- 0s - loss: 7.2086 -
```

mean_absolute_error: 1.9042 - val_loss <u>: 12.6959 - val_mean_</u>absolute_error: 2

. 1726

6307 Epoch 2844/20000

6308 - Os - Loss: 7.8972 -

mean_absolute_error: 2.0081 - val_loss

: 12.6958 - val_mean_absolute_error: 2

. 1726

6309 Epoch 2845/20000

6310 - 0s - loss: 7.9330 -

mean_absolute_error: 2.0661 - val_loss

: 12.6961 - val_mean_absolute_error: 2

. 1726

6311 Epoch 2846/20000

6312 - 0s - loss: 8.4607 -

mean_absolute_error: 1.9867 - val_loss

: 12.6970 - val_mean_absolute_error: 2

. 1727

6313 Epoch 2847/20000

6314 - 0s - loss: 8.1295 -

mean_absolute_error: 2.0152 - val_loss

: 12.6973 - val_mean_absolute_error: 2

1728

```
File - boston01
6315 Epoch 2848/20000
      - 0s - loss: 8.0671 -
6316
     mean_absolute_error: 2.0039 - val_loss
       12.6980 - val_mean_absolute_error: 2
      1729
6317 Epoch 2849/20000
      - 0s - loss: 6.7066 -
6318
     mean_absolute_error: 1.9348 - val_loss
       12.6977 - val_mean_absolute_error: 2
      1729
6319 Epoch 2850/20000
6320 - 0s - loss: 8.5053 -
     mean_absolute_error: 2.0736 - val_loss
       12.6979 - val_mean_absolute_error: 2
      1729
6321
6322 Epoch 02850: saving model to ./model/
     model_best.h5
6323 Epoch 2851/20000
6324 - 0s - loss: 6.5009 -
     mean_absolute_error: 1.9139 - val_loss
       12.6992 - val_mean_absolute_error:
      1730
6325 Epoch 2852/20000
```

6333 Epoch 2856/20000 6334 - Os - Loss: 7.8266 mean_absolute_error: 2.0126 - val_loss : 12.6993 - val_mean_absolute_error: 2

. 1729

```
File - boston01
6335 Epoch 2857/20000
      - 0s - loss: 7.2860 -
6336
     mean_absolute_error: 1.9582 - val_loss
       12.6977 - val_mean_absolute_error: 2
      1728
6337 Epoch 2858/20000
      - 0s - loss: 8.9982 -
6338
     mean_absolute_error: 2.0152 - val_loss
       12.6982 - val_mean_absolute_error: 2
      1729
6339 Epoch 2859/20000
6340 - 0s - loss: 9.2780 -
     mean_absolute_error: 2.2095 - val_loss
       12.6988 - val_mean_absolute_error: 2
      1729
6341 Epoch 2860/20000
6342 - 0s - loss: 8.9598 -
     mean_absolute_error: 2.0876 - val_loss
       12.6988 - val_mean_absolute_error: 2
      1730
6343
6344 Epoch 02860: saving model to ./model/
     model_best.h5
6345 Epoch 2861/20000
```

```
- 0s - loss: 7.7331 -
6346
     mean_absolute_error: 1.9315 - val_loss
       12.6995 - val_mean_absolute_error: 2
      1730
6347 Epoch 2862/20000
     - 0s - loss: 7.5260 -
6348
     mean_absolute_error: 2.0128 - val_loss
       12.6993 - val_mean_absolute_error: 2
     1730
6349 Epoch 2863/20000
6350 - 0s - loss: 7.9063 -
     mean_absolute_error: 2.0020 - val_loss
       12.6996 - val_mean_absolute_error: 2
     1730
6351 Epoch 2864/20000
     - 0s - loss: 6.4875 -
6352
     mean_absolute_error: 1.9218 - val_loss
       12.7000 - val_mean_absolute_error: 2
      1730
6353 Epoch 2865/20000
     - 0s - loss: 7.7273 -
6354
     mean_absolute_error: 2.0032 - val_loss
     : 12.6989 - val_mean_absolute_error: 2
     1729
```

```
File - boston01
6355 Epoch 2866/20000
      - 0s - loss: 7.9213 -
6356
     mean_absolute_error: 2.0276 - val_loss
       12.6989 - val_mean_absolute_error: 2
      1730
6357 Epoch 2867/20000
      - 0s - loss: 10.6397 -
6358
     mean_absolute_error: 2.0995 - val_loss
       12.6993 - val_mean_absolute_error: 2
      . 1730
6359 Epoch 2868/20000
6360 - 0s - loss: 7.6602 -
     mean_absolute_error: 2.0988 - val_loss
       12.6996 - val_mean_absolute_error: 2
      1730
6361 Epoch 2869/20000
      - 0s - loss: 7.5760 -
6362
     mean_absolute_error: 2.0148 - val_loss
       12.6994 - val_mean_absolute_error: 2
      1729
6363 Epoch 2870/20000
6364 - 0s - Loss: 7.0768
     mean_absolute_error: 1.9554 - val_loss
      12.6985 - val_mean_absolute_error: 2
```

```
File - boston01
6364 . 1728
6365
6366 Epoch 02870: saving model to ./model/
     model_best.h5
6367 Epoch 2871/20000
     - 0s - loss: 8.5595 -
6368
     mean_absolute_error: 2.0596 - val_loss
       12.6971 - val_mean_absolute_error: 2
      1728
6369 Epoch 2872/20000
6370 - 0s - loss: 7.1546 -
     mean_absolute_error: 1.8998 - val_loss
       12.6974 - val_mean_absolute_error: 2
      1728
6371 Epoch 2873/20000
      - 0s - loss: 7.2723 -
6372
     mean_absolute_error: 2.0062 - val_loss
       12.6970 - val_mean_absolute_error: 2
      1728
6373 Epoch 2874/20000
      - 0s - loss: 6.6675 -
6374
     mean_absolute_error: 1.8599 - val_loss
     : 12.6967 - val_mean_absolute_error: 2
      1727
```

```
File - boston01
6375 Epoch 2875/20000
      - 0s - loss: 6.5155 -
6376
     mean_absolute_error: 1.9170 - val_l<u>oss</u>
       12.6970 - val_mean_absolute_error: 2
      1727
6377 Epoch 2876/20000
      - 0s - loss: 9.0038 -
6378
     mean_absolute_error: 2.1892 - val_loss
       12.6970 - val_mean_absolute_error: 2
      . 1727
6379 Epoch 2877/20000
6380 - 0s - loss: 7.3253
     mean_absolute_error: 1.9486 - val_loss
       12.6967 - val_mean_absolute_error: 2
      1727
6381 Epoch 2878/20000
      - 0s - loss: 7.9479 -
6382
     mean_absolute_error: 1.9532 - val_loss
       12.6964 - val_mean_absolute_error: 2
      1727
6383 Epoch 2879/20000
6384 - 0s - loss: 6.6120
     mean_absolute_error: 1.9281 - val_loss
      12.6966 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1727
6384
6385 Epoch 2880/20000
      - 0s - loss: 8.6317
6386
     mean_absolute_error: 2.1131 - val_loss
       12.6970 - val_mean_absolute_error: 2
      1728
6387
6388 Epoch 02880: saving model to ./model/
     model_best.h5
6389 Epoch 2881/20000
6390 - 0s - loss: 7.5557 -
     mean_absolute_error: 2.0576 - val_loss
       12.6969 - val_mean_absolute_error:
      1728
6391 Epoch 2882/20000
      - 0s - loss: 6.2244 -
6392
     mean_absolute_error: 1.8363 - val_loss
       12.6969 - val_mean_absolute_error: 2
      1728
6393 Epoch 2883/20000
      - 0s - loss: 7.4247 -
6394
     mean_absolute_error: 1.9417 - val_loss
     : 12.6963 - val_mean_absolute_error: 2
      1728
```

```
File - boston01
6395 Epoch 2884/20000
      - 0s - loss: 7.9475 -
6396
     mean_absolute_error: 2.0042 - val_loss
       12.6968 - val_mean_absolute_error: 2
      1728
6397 Epoch 2885/20000
      - 0s - loss: 8.2366 -
6398
     mean_absolute_error: 2.0563 - val_loss
       12.6969 - val_mean_absolute_error: 2
      . 1729
6399 Epoch 2886/20000
6400 - 0s - loss: 6.0496 -
     mean_absolute_error: 1.8412 - val_loss
       12.6974 - val_mean_absolute_error: 2
      1729
6401 Epoch 2887/20000
      - 0s - loss: 6.7308 -
6402
     mean_absolute_error: 1.9207 - val_loss
       12.6979 - val_mean_absolute_error: 2
      1730
6403 Epoch 2888/20000
6404 - 0s - loss: 8.6547
     mean_absolute_error: 2.1221 - val_loss
      12.6979 - val_mean_absolute_error: 2
```

```
File - boston01
6404 . 1730
6405 Epoch 2889/20000
6406 - 0s - loss: 7.5976
     mean_absolute_error: 2.0539 - val_loss
       12.6978 - val_mean_absolute_error: 2
      1729
6407 Epoch 2890/20000
      - 0s - Loss: 8.9571
6408
     mean_absolute_error: 2.1373 - val_loss
       12.6973 - val_mean_absolute_error:
      1729
6409
6410 Epoch 02890: saving model to ./model/
     model best.h5
6411 Epoch 2891/20000
      - 0s - loss: 9.2821
6412
     mean_absolute_error: 2.1134 - val_loss
       12.6963 - val_mean_absolute_error: 2
      1728
6413 Epoch 2892/20000
      - 0s - loss: 8.1525 -
6414
     mean_absolute_error: 2.0312 - val_loss
     : 12.6975 - val_mean_absolute_error: 2
      1728
```

: 12.6984 - val_mean_absolute_error: 2

```
File - boston01
6424 . 1728
6425 Epoch 2898/20000
6426 - 0s - loss: 7.2252
     mean_absolute_error: 1.9252 - val_loss
       12.6980 - val_mean_absolute_error: 2
      1728
6427 Epoch 2899/20000
6428 - 0s - Loss: 7.1236 -
     mean_absolute_error: 2.0232 - val_loss
       12.6982 - val_mean_absolute_error:
      1728
6429 Epoch 2900/20000
6430 - 0s - loss: 9.0844 -
     mean_absolute_error: 2.1801 - val_loss
       12.6978 - val_mean_absolute_error:
      . 1727
6431
6432 Epoch 02900: saving model to ./model/
     model_best.h5
6433 Epoch 2901/20000
      - 0s - loss: 8.1075 -
6434
     mean_absolute_error: 2.0236 - val_loss
     : 12.6988 - val_mean_absolute_error: 2
      1728
```

```
File - boston01
6435 Epoch 2902/20000
      - 0s - Loss: 8.1282 -
6436
     mean_absolute_error: 1.9960 - val_loss
       12.6988 - val_mean_absolute_error: 2
      1728
6437 Epoch 2903/20000
      - 0s - loss: 8.9596 -
6438
     mean_absolute_error: 2.1112 - val_loss
       12.6990 - val_mean_absolute_error: 2
      . 1728
6439 Epoch 2904/20000
6440 - 0s - loss: 6.4293 -
     mean_absolute_error: 1.9052 - val_loss
       12.6985 - val_mean_absolute_error: 2
      . 1728
6441 Epoch 2905/20000
      - 0s - loss: 7.0783 -
6442
     mean_absolute_error: 1.8845 - val_loss
       12.6979 - val_mean_absolute_error: 2
      1727
6443 Epoch 2906/20000
6444 - 0s - loss: 7.0832
     mean_absolute_error: 1.9100 - val_loss
      12.6975 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1727
6444
6445 Epoch 2907/20000
6446 - 0s - loss: 7.7716
     mean_absolute_error: 2.0079 - val_loss
       12.6968 - val_mean_absolute_error: 2
      1727
6447 Epoch 2908/20000
6448 - 0s - Loss: 7.1872 ·
     mean_absolute_error: 1.8860 - val_loss
       12.6969 - val_mean_absolute_error:
      1727
6449 Epoch 2909/20000
6450 - 0s - loss: 7.7727 -
     mean_absolute_error: 2.0722 - val_loss
       12.6980 - val_mean_absolute_error:
      1727
6451 Epoch 2910/20000
6452 - 0s - loss: 7.2325 -
     mean_absolute_error: 2.0467 - val_loss
       12.6988 - val_mean_absolute_error:
      1728
6453
     Epoch 02910: saving model to ./model/
6454
     model_best.h5
```

12.6994 - val_mean_absolute_error: 2

```
File - boston01
6464 . 1729
6465 Epoch 2916/20000
6466 - 0s - loss: 8.7374
     mean_absolute_error: 2.1007 - val_loss
       12.6988 - val_mean_absolute_error: 2
      1729
6467 Epoch 2917/20000
     - 0s - loss: 6.7806 -
6468
     mean_absolute_error: 1.8928 - val_loss
       12.6985 - val_mean_absolute_error:
      1728
6469 Epoch 2918/20000
6470 - 0s - loss: 8.3919 -
     mean_absolute_error: 2.0773 - val_loss
       12.6986 - val_mean_absolute_error:
      1728
6471 Epoch 2919/20000
6472 - 0s - loss: 7.6187 -
     mean_absolute_error: 1.9439 - val_loss
       12.6986 - val_mean_absolute_error:
      1728
6473 Epoch 2920/20000
6474 - 0s - loss: 6.5274 -
     mean_absolute_error: 1.9995 - val_loss
```

```
12.6989 - val_mean_absolute_error: 2
6474
     1728
6475
6476 Epoch 02920: saving model to ./model/
     model_best.h5
6477 Epoch 2921/20000
     - 0s - loss: 7.8801
6478
     mean_absolute_error: 1.8602 - val_loss
       12.6982 - val_mean_absolute_error: 2
     . 1728
6479 Epoch 2922/20000
6480 - 0s - loss: 6.6307 -
     mean_absolute_error: 1.8458 - val_loss
       12.6980 - val_mean_absolute_error: 2
     1727
6481 Epoch 2923/20000
     - 0s - loss: 6.0753 -
6482
     mean_absolute_error: 1.8189 - val_loss
       12.6974 - val_mean_absolute_error: 2
     1727
6483 Epoch 2924/20000
6484 - 0s - loss: 7.5730
     mean_absolute_error: 2.0214 - val_loss
     12.6975 - val_mean_absolute_error: 2
```

```
File - boston01
6484 . 1727
6485 Epoch 2925/20000
6486 - 0s - Loss: 6.6413
     mean_absolute_error: 1.8476 - val_loss
       12.6980 - val_mean_absolute_error: 2
      1728
6487 Epoch 2926/20000
     - 0s - Loss: 7.9105
6488
     mean_absolute_error: 1.9922 - val_loss
       12.6993 - val_mean_absolute_error:
      1728
6489 Epoch 2927/20000
6490 - 0s - loss: 8.7452 -
     mean_absolute_error: 2.0529 - val_loss
       12.6994 - val_mean_absolute_error:
      1729
6491 Epoch 2928/20000
6492 - 0s - loss: 6.8952 -
     mean_absolute_error: 1.8644 - val_loss
       12.6993 - val_mean_absolute_error:
      1729
6493 Epoch 2929/20000
6494 - 0s - loss: 6.8804 -
     mean_absolute_error: 1.8799 - val_loss
```

```
12.6999 - val_mean_absolute_error: 2
6494 l
     1728
6495 Epoch 2930/20000
     - 0s - loss: 7.8402 -
6496
     mean_absolute_error: 2.0127 - val_loss
       12.6995 - val_mean_absolute_error: 2
     . 1728
6497
6498 Epoch 02930: saving model to ./model/
     model best.h5
6499 Epoch 2931/20000
6500 - 0s - loss: 7.5289
     mean_absolute_error: 1.9563 - val_loss
       12.6999 - val_mean_absolute_error: 2
     1729
6501 Epoch 2932/20000
     - 0s - loss: 7.5154 -
6502 l
     mean_absolute_error: 1.9826 - val_loss
       12.6992 - val_mean_absolute_error: 2
     1728
6503 Epoch 2933/20000
6504 - 0s - Loss: 8.1896
     mean_absolute_error: 2.0373 - val_loss
      12.6994 - val_mean_absolute_error: 2
```

```
File - boston01
6504 . 1728
6505 Epoch 2934/20000
     - 0s - loss: 8.1914
6506
     mean_absolute_error: 2.0665 - val_loss
       12.6996 - val_mean_absolute_error: 2
      1728
6507 Epoch 2935/20000
     - 0s - Loss: 8.7614 -
6508
     mean_absolute_error: 2.0891 - val_loss
       12.6995 - val_mean_absolute_error:
      1728
6509 Epoch 2936/20000
6510 - 0s - loss: 9.1502 -
     mean_absolute_error: 2.0057 - val_loss
       12.7001 - val_mean_absolute_error:
      1729
6511 Epoch 2937/20000
6512 - 0s - loss: 7.7017 -
     mean_absolute_error: 1.9788 - val_loss
       12.7001 - val_mean_absolute_error:
      1729
6513 Epoch 2938/20000
6514 - 0s - Ioss: 7.8723 -
     mean_absolute_error: 2.0174 - val_loss
```

```
12.6998 - val_mean_absolute_error: 2
6514
     1730
6515 Epoch 2939/20000
     - 0s - loss: 10.9338 -
6516
     mean_absolute_error: 2.2525 - val_loss
       12.6997 - val_mean_absolute_error: 2
      1729
6517 Epoch 2940/20000
6518
     - 0s - loss: 6.9800 -
     mean_absolute_error: 1.8393 - val_loss
       12.7005 - val_mean_absolute_error: 2
     1730
6519
    Epoch 02940: saving model to ./model/
6520
     model_best.h5
6521 Epoch 2941/20000
     - 0s - loss: 7.7967 -
6522
     mean_absolute_error: 2.0591 - val_loss
       12.7007 - val_mean_absolute_error: 2
     1731
6523 Epoch 2942/20000
6524 - 0s - loss: 7.2965
     mean_absolute_error: 1.9130 - val_loss
     12.7006 - val_mean_absolute_error: 2
```

```
File - boston01
6524 . 1730
6525 Epoch 2943/20000
6526 - 0s - loss: 6.5601
     mean_absolute_error: 1.9394 - val_loss
       12.7009 - val_mean_absolute_error: 2
      1730
6527 Epoch 2944/20000
6528 - 0s - loss: 7.5629 -
     mean_absolute_error: 1.9129 - val_loss
       12.7009 - val_mean_absolute_error:
      1730
6529 Epoch 2945/20000
6530 - 0s - loss: 7.6800 -
     mean_absolute_error: 1.9986 - val_loss
       12.7013 - val_mean_absolute_error:
      1731
6531 Epoch 2946/20000
6532 - 0s - loss: 7.6260 -
     mean_absolute_error: 1.9230 - val_loss
       12.7007 - val_mean_absolute_error:
      1730
6533 Epoch 2947/20000
6534 - 0s - loss: 8.4913 -
     mean_absolute_error: 2.1401 - val_l<u>oss</u>
```

```
12.7016 - val_mean_absolute_error: 2
6534
     1731
6535 Epoch 2948/20000
     - 0s - loss: 6.7390 -
6536
     mean_absolute_error: 1.8919 - val_loss
       12.7012 - val_mean_absolute_error: 2
     1731
6537 Epoch 2949/20000
6538
     - 0s - loss: 9.0784 -
     mean_absolute_error: 2.1025 - val_loss
       12.7007 - val_mean_absolute_error: 2
      1731
6539 Epoch 2950/20000
6540 - 0s - loss: 10.0028 -
     mean_absolute_error: 2.1909 - val_loss
       12.7007 - val_mean_absolute_error: 2
     . 1731
6541
6542 Epoch 02950: saving model to ./model/
     model_best.h5
6543 Epoch 2951/20000
6544 - 0s - Loss: 6.8415
     mean_absolute_error: 1.9735 - val_loss
      12.7008 - val_mean_absolute_error: 2
```

```
File - boston01
6544 . 1731
6545 Epoch 2952/20000
6546 - 0s - Loss: 6.4613
     mean_absolute_error: 1.8656 - val_loss
       12.7002 - val_mean_absolute_error: 2
      1730
6547 Epoch 2953/20000
6548 - 0s - loss: 6.6168 ·
     mean_absolute_error: 1.8916 - val_loss
       12.6997 - val_mean_absolute_error:
      1730
6549 Epoch 2954/20000
6550 - 0s - loss: 7.3943 -
     mean_absolute_error: 2.0360 - val_loss
       12.7002 - val_mean_absolute_error:
      1729
6551 Epoch 2955/20000
      - 0s - loss: 8.3003 -
6552
     mean_absolute_error: 2.0111 - val_loss
       12.7004 - val_mean_absolute_error:
      1729
6553 Epoch 2956/20000
6554 - 0s - loss: 7.6038 -
     mean_absolute_error: 1.9989 - val_l<u>oss</u>
```

6562 - 0s - loss: 7.3914 - mean_absolute_error: 1.9715 - val_loss : 12.7018 - val_mean_absolute_error: 2 .1731

6563

6564 Epoch 02960: saving model to ./model/

```
File - boston01
6564 model_best.h5
6565 Epoch 2961/20000
6566 - 0s - loss: 8.8517
     mean_absolute_error: 2.1481 - val_loss
       12.7012 - val_mean_absolute_error: 2
      1731
6567 Epoch 2962/20000
     - 0s - loss: 7.2659 -
6568
     mean_absolute_error: 1.9010 - val_loss
       12.7016 - val_mean_absolute_error:
      1732
6569 Epoch 2963/20000
6570 - 0s - loss: 9.0145 -
     mean_absolute_error: 2.1140 - val_loss
       12.7011 - val_mean_absolute_error:
      1732
6571 Epoch 2964/20000
6572 - 0s - loss: 7.6934 -
     mean_absolute_error: 2.1022 - val_loss
       12.7007 - val_mean_absolute_error:
      1731
6573 Epoch 2965/20000
6574 - 0s - loss: 7.4175 -
     mean_absolute_error: 2.1010 - val_loss
```

```
12.7011 - val_mean_absolute_error: 2
6574
     1730
6575 Epoch 2966/20000
     - 0s - loss: 7.1716 -
6576
     mean_absolute_error: 1.9926 - val_loss
      12.7013 - val_mean_absolute_error: 2
     1731
6577 Epoch 2967/20000
6578
     - 0s - loss: 5.8459 -
     mean_absolute_error: 1.8228 - val_loss
       12.7008 - val_mean_absolute_error: 2
     1730
6579 Epoch 2968/20000
     - 0s - loss: 7.2106 -
6580
     mean_absolute_error: 1.9849 - val_loss
      12.7005 - val_mean_absolute_error: 2
     . 1730
6581 Epoch 2969/20000
     - 0s - loss: 7.9360 -
6582
     mean_absolute_error: 2.0219 - val_loss
       12.7011 - val_mean_absolute_error: 2
     1730
6583 Epoch 2970/20000
     - 0s - loss: 6.4582
6584
```

```
6584 mean_absolute_error: 1.9044 - val_loss
       12.7003 - val_mean_absolute_error: 2
     1729
6585
6586 Epoch 02970: saving model to ./model/
     model_best.h5
6587 Epoch 2971/20000
    - 0s - Loss: 8.1531
6588
     mean_absolute_error: 2.1525 - val_loss
       12.6999 - val_mean_absolute_error:
     1728
6589 Epoch 2972/20000
6590 - 0s - loss: 9.5714 -
     mean_absolute_error: 2.1206 - val_loss
       12.6991 - val_mean_absolute_error:
     1727
6591 Epoch 2973/20000
6592 - 0s - loss: 7.8766 -
     mean_absolute_error: 2.0860 - val_loss
       12.6997 - val_mean_absolute_error:
     1728
6593 Epoch 2974/20000
6594 - 0s - loss: 8.4957 -
     mean_absolute_error: 2.0454 - val_loss
```

```
12.6999 - val_mean_absolute_error: 2
6594
     1728
6595 Epoch 2975/20000
     - 0s - loss: 7.7467 -
6596
     mean_absolute_error: 1.9981 - val_loss
       12.7005 - val_mean_absolute_error: 2
      1729
6597 Epoch 2976/20000
     - 0s - loss: 7.9499 -
6598
     mean_absolute_error: 1.9609 - val_loss
       12.7005 - val_mean_absolute_error: 2
      1729
6599 Epoch 2977/20000
6600
     - 0s - loss: 7.0198 -
     mean_absolute_error: 1.8654 - val_loss
       12.6995 - val_mean_absolute_error: 2
     . 1728
6601 Epoch 2978/20000
     - 0s - loss: 6.3492 -
6602
     mean_absolute_error: 1.8943 - val_loss
       12.6993 - val_mean_absolute_error: 2
     1728
6603 Epoch 2979/20000
6604 - 0s - loss: 7.2736 -
```

```
6604 mean_absolute_error: 1.9106 - val_loss
       12.6988 - val_mean_absolute_error: 2
      1728
6605 Epoch 2980/20000
     - 0s - loss: 8.1269 -
6606
     mean_absolute_error: 2.0631 - val_loss
       12.6993 - val_mean_absolute_error: 2
     . 1728
6607
6608 Epoch 02980: saving model to ./model/
     model_best.h5
6609 Epoch 2981/20000
6610 - 0s - loss: 6.0381 -
     mean_absolute_error: 1.7678 - val_loss
       12.6992 - val_mean_absolute_error: 2
     1728
6611 Epoch 2982/20000
6612 - 0s - loss: 8.1542 -
     mean_absolute_error: 2.0663 - val_loss
       12.7001 - val_mean_absolute_error:
     1728
6613 Epoch 2983/20000
6614 - 0s - loss: 7.4340 -
     mean_absolute_error: 1.9730 - val_loss
```

```
12.6994 - val_mean_absolute_error: 2
6614
     1728
6615 Epoch 2984/20000
     - 0s - loss: 7.3343 -
6616
     mean_absolute_error: 1.9497 - val_loss
      12.7004 - val_mean_absolute_error: 2
      1728
6617 Epoch 2985/20000
     - 0s - loss: 7.7112 -
6618
     mean_absolute_error: 1.9920 - val_loss
       12.7004 - val_mean_absolute_error: 2
      1728
6619 Epoch 2986/20000
6620 - Os - Loss: 6.2479 -
     mean_absolute_error: 1.9309 - val_loss
      12.6999 - val_mean_absolute_error: 2
     . 1728
6621 Epoch 2987/20000
     - 0s - loss: 7.7902 -
6622
     mean_absolute_error: 2.0231 - val_loss
       12.7002 - val_mean_absolute_error: 2
     1727
6623 Epoch 2988/20000
6624 - 0s - loss: 6.3581
```

```
6624 mean_absolute_error: 1.8761 - val_loss
       12.7007 - val_mean_absolute_error: 2
      1728
6625 Epoch 2989/20000
6626 - 0s - loss: 7.6021 -
     mean_absolute_error: 1.9849 - val_loss
       12.7010 - val_mean_absolute_error: 2
     1728
6627 Epoch 2990/20000
6628 - 0s - loss: 9.3065 -
     mean_absolute_error: 2.1961 - val_loss
       12.7018 - val_mean_absolute_error: 2
      1729
6629
6630 Epoch 02990: saving model to ./model/
     model_best.h5
6631 Epoch 2991/20000
6632 - Os - Loss: 7.7433 -
     mean_absolute_error: 1.9685 - val_loss
       12.7012 - val_mean_absolute_error:
     1728
6633 Epoch 2992/20000
6634 - 0s - loss: 6.5307 -
     mean_absolute_error: 1.8205 - val_loss
```

12.6997 - val_mean_absolute_error: 2 . 1728

6641 Epoch 2996/20000

- 0s - loss: 7.2429 6642 mean_absolute_error: 1.9692 - val_loss 12.6999 - val_mean_absolute_error: 2 1728

6643 Epoch 2997/20000

6644 - 0s - loss: 6.3308

```
6644 mean_absolute_error: 1.7710 - val_loss
       12.7005 - val_mean_absolute_error: 2
      1729
6645 Epoch 2998/20000
6646 - 0s - loss: 6.7315 -
     mean_absolute_error: 1.9031 - val_loss
       12.6993 - val_mean_absolute_error: 2
     1727
6647 Epoch 2999/20000
6648 - 0s - loss: 8.0171
     mean_absolute_error: 2.0517 - val_loss
       12.6985 - val_mean_absolute_error: 2
     1727
6649 Epoch 3000/20000
6650 - 0s - loss: 5.9872 ·
     mean_absolute_error: 1.8756 - val_loss
       12.6988 - val_mean_absolute_error: 2
     . 1727
6651
6652 Epoch 03000: saving model to ./model/
     model_best.h5
6653 Epoch 3001/20000
6654 - 0s - loss: 6.2842 -
     mean_absolute_error: 1.8850 - val_loss
```

```
12.6983 - val_mean_absolute_error: 2
6654
     1727
6655 Epoch 3002/20000
     - 0s - loss: 7.1634 -
6656
     mean_absolute_error: 1.9209 - val_loss
       12.6965 - val_mean_absolute_error: 2
     1725
6657 Epoch 3003/20000
6658
     - 0s - loss: 8.3867 -
     mean_absolute_error: 2.0493 - val loss
       12.6966 - val_mean_absolute_error: 2
     1725
6659 Epoch 3004/20000
     - 0s - loss: 7.5462 -
6660
     mean_absolute_error: 1.9121 - val_loss
       12.6971 - val_mean_absolute_error: 2
     1726
6661 Epoch 3005/20000
     - 0s - loss: 7.3869 -
6662
     mean_absolute_error: 1.9258 - val_loss
       12.6972 - val_mean_absolute_error: 2
     1726
6663 Epoch 3006/20000
6664 - 0s - loss: 7.9348
```

```
6664 mean_absolute_error: 2.0086 - val_loss
       12.6973 - val_mean_absolute_error: 2
     1726
6665 Epoch 3007/20000
    - 0s - loss: 6.3262 -
6666
     mean_absolute_error: 1.8881 - val_loss
       12.6975 - val_mean_absolute_error: 2
     1726
6667 Epoch 3008/20000
6668 - 0s - loss: 6.5313 -
     mean_absolute_error: 1.8630 - val_loss
       12.6966 - val_mean_absolute_error: 2
     1725
6669 Epoch 3009/20000
6670 - 0s - loss: 8.6916 -
     mean_absolute_error: 2.0969 - val_loss
       12.6958 - val_mean_absolute_error: 2
     1725
6671 Epoch 3010/20000
     - 0s - loss: 6.6205 -
6672
     mean_absolute_error: 1.9067 - val_loss
      12.6961 - val_mean_absolute_error:
     . 1725
6673
```

Page 669 of 1152

```
6674 Epoch 03010: saving model to ./model/
     model best.h5
6675 Epoch 3011/20000
6676 - Os - Loss: 7.4249 -
     mean_absolute_error: 1.9931 - val_loss
      12.6973 - val_mean_absolute_error: 2
     1727
6677 Epoch 3012/20000
6678
     - 0s - loss: 6.6347 -
     mean_absolute_error: 1.9304 - val_loss
       12.6976 - val_mean_absolute_error: 2
     1727
6679 Epoch 3013/20000
     - 0s - loss: 7.9850 -
6680
     mean_absolute_error: 2.0073 - val_loss
      12.6983 - val_mean_absolute_error: 2
     . 1727
6681 Epoch 3014/20000
     - 0s - loss: 6.8207 -
6682
     mean_absolute_error: 1.8501 - val_loss
       12.6984 - val_mean_absolute_error: 2
     1728
6683 Epoch 3015/20000
6684 - 0s - loss: 8.8412
```

```
6684 mean_absolute_error: 2.1341 - val_loss
       12.6982 - val_mean_absolute_error: 2
      1728
6685 Epoch 3016/20000
     - 0s - loss: 7.1928 -
6686
     mean_absolute_error: 1.8993 - val_loss
       12.6990 - val_mean_absolute_error: 2
     1728
6687 Epoch 3017/20000
6688 - 0s - loss: 9.1913 -
     mean_absolute_error: 2.1567 - val_loss
       12.6976 - val_mean_absolute_error: 2
     1727
6689 Epoch 3018/20000
6690 - 0s - loss: 7.5506 -
     mean_absolute_error: 1.9800 - val_loss
       12.6980 - val_mean_absolute_error: 2
     1728
6691 Epoch 3019/20000
     - 0s - loss: 8.2518 -
6692
     mean_absolute_error: 2.0781 - val_loss
       12.6973 - val_mean_absolute_error:
      1727
6693 Epoch 3020/20000
```

mean_absolute_error: 1.9523 - val_loss : 12.6980 - val_mean_absolute_error: 2 .1727

6703 Epoch 3024/20000

6704 - 0s - loss: 7.6321 -

```
6704 mean_absolute_error: 2.0183 - val_loss
       12.6985 - val_mean_absolute_error: 2
     1728
6705 Epoch 3025/20000
6706 - 0s - loss: 7.3185 -
     mean_absolute_error: 2.0104 - val_loss
       12.6989 - val_mean_absolute_error: 2
     1728
6707 Epoch 3026/20000
6708 - 0s - loss: 7.5642 -
     mean_absolute_error: 2.0212 - val_loss
       12.6986 - val_mean_absolute_error: 2
     1728
6709 Epoch 3027/20000
6710 - 0s - Loss: 8.6331
     mean_absolute_error: 2.0869 - val_loss
       12.6995 - val_mean_absolute_error: 2
     1728
6711 Epoch 3028/20000
6712 - 0s - loss: 6.1679 -
     mean_absolute_error: 1.8712 - val_loss
       12.6986 - val_mean_absolute_error:
     1728
6713 Epoch 3029/20000
```

```
- 0s - loss: 6.0426 -
6714
     mean_absolute_error: 1.8688 - val_loss
       12.6987 - val_mean_absolute_error: 2
      1727
6715 Epoch 3030/20000
6716 - 0s - loss: 6.6061 -
     mean_absolute_error: 1.9269 - val_loss
       12.6982 - val_mean_absolute_error: 2
     . 1727
6717
6718 Epoch 03030: saving model to ./model/
     model_best.h5
6719 Epoch 3031/20000
6720 - 0s - loss: 7.3203 -
     mean_absolute_error: 2.0221 - val_loss
       12.6979 - val_mean_absolute_error: 2
     . 1727
6721 Epoch 3032/20000
6722 - 0s - Loss: 6.6831
     mean_absolute_error: 1.8571 - val_loss
       12.6988 - val_mean_absolute_error: 2
      1727
6723 Epoch 3033/20000
6724 - 0s - loss: 7.8132
```

```
6724 mean_absolute_error: 1.9977 - val_loss
       12.6991 - val_mean_absolute_error: 2
     1728
6725 Epoch 3034/20000
6726 - 0s - loss: 7.4825 -
     mean_absolute_error: 2.0068 - val_loss
       12.6998 - val_mean_absolute_error: 2
     1728
6727 Epoch 3035/20000
6728 - 0s - loss: 6.4103 -
     mean_absolute_error: 1.9325 - val_loss
       12.7002 - val_mean_absolute_error: 2
     1728
6729 Epoch 3036/20000
6730 - 0s - loss: 8.2222 -
     mean_absolute_error: 2.0504 - val_loss
       12.7014 - val_mean_absolute_error: 2
     1729
6731 Epoch 3037/20000
6732 - 0s - loss: 8.7232 -
     mean_absolute_error: 2.1076 - val_loss
       12.7014 - val_mean_absolute_error:
      1729
6733 Epoch 3038/20000
```

6740 Epoch 03040: saving model to ./model/

- 0s - loss: 6.8289 6742 mean_absolute_error: 1.9280 - val_loss 12.7038 - val_mean_absolute_error: 2 1731

6743 Epoch 3042/20000

- 0s - loss: 7.1890 -6744 l

```
6744 mean_absolute_error: 1.8942 - val_loss
       12.7033 - val_mean_absolute_error: 2
     1731
6745 Epoch 3043/20000
6746 - 0s - Loss: 8.3768 -
     mean_absolute_error: 2.0772 - val_loss
       12.7033 - val_mean_absolute_error: 2
     1731
6747 Epoch 3044/20000
6748 - 0s - loss: 8.3012 -
     mean_absolute_error: 2.1156 - val_loss
       12.7028 - val_mean_absolute_error: 2
     1730
6749 Epoch 3045/20000
6750 - 0s - loss: 8.4644 -
     mean_absolute_error: 2.0929 - val_loss
       12.7033 - val_mean_absolute_error: 2
     . 1730
6751 Epoch 3046/20000
6752 - 0s - loss: 7.0380 -
     mean_absolute_error: 1.9158 - val_loss
       12.7034 - val_mean_absolute_error:
     1730
6753 Epoch 3047/20000
```

```
- 0s - loss: 7.1069 -
6754
     mean_absolute_error: 1.9859 - val_loss
       12.7026 - val_mean_absolute_error: 2
      1730
6755 Epoch 3048/20000
     - 0s - loss: 9.0990 -
6756
     mean_absolute_error: 2.2383 - val_loss
       12.7035 - val_mean_absolute_error:
     1730
6757 Epoch 3049/20000
     - Os - loss: 7.5259 -
6758 I
     mean_absolute_error: 1.9292 - val_loss
       12.7045 - val_mean_absolute_error:
      1731
6759 Epoch 3050/20000
     - 0s - loss: 8.2142 -
6760
     mean_absolute_error: 2.0677 - val_loss
       12.7043 - val_mean_absolute_error: 2
     1731
6761
     Epoch 03050: saving model to ./model/
6762
     model_best.h5
6763 Epoch 3051/20000
6764 - Os - Loss: 8.4933
```

```
6764 mean_absolute_error: 2.0751 - val_loss
       12.7041 - val_mean_absolute_error: 2
     1730
6765 Epoch 3052/20000
6766 - 0s - loss: 6.7460 -
     mean_absolute_error: 1.9188 - val_loss
       12.7048 - val_mean_absolute_error: 2
     1731
6767 Epoch 3053/20000
6768 - 0s - loss: 7.3803 -
     mean_absolute_error: 1.9576 - val_loss
       12.7050 - val_mean_absolute_error: 2
     1731
6769 Epoch 3054/20000
6770 - 0s - loss: 6.8701
     mean_absolute_error: 1.8994 - val_loss
       12.7048 - val_mean_absolute_error: 2
     1731
6771 Epoch 3055/20000
6772 - 0s - loss: 7.3315 -
     mean_absolute_error: 2.0093 - val_loss
       12.7046 - val_mean_absolute_error:
     1731
6773 Epoch 3056/20000
```

```
- 0s - loss: 5.9529 -
6774
     mean_absolute_error: 1.8335 - val_loss
       12.7053 - val_mean_absolute_error: 2
      1732
6775 Epoch 3057/20000
6776 - 0s - loss: 7.6704 -
     mean_absolute_error: 1.9594 - val_loss
       12.7063 - val_mean_absolute_error: 2
     1733
6777 Epoch 3058/20000
6778 - 0s - loss: 6.9872 -
     mean_absolute_error: 1.8695 - val_loss
       12.7058 - val_mean_absolute_error: 2
     1732
6779 Epoch 3059/20000
     - 0s - loss: 7.0445 -
6780 l
     mean_absolute_error: 1.9616 - val loss
       12.7049 - val_mean_absolute_error: 2
      1732
6781 Epoch 3060/20000
     - 0s - loss: 7.0893 -
6782
     mean_absolute_error: 1.9224 - val_loss
     12.7046 - val_mean_absolute_error: 2
     1732
```

```
6783
    Epoch 03060: saving model to ./model/
6784
     model_best.h5
6785 Epoch 3061/20000
    - 0s - Loss: 6.3993
6786
     mean_absolute_error: 1.9077 - val_loss
       12.7048 - val_mean_absolute_error: 2
     1732
6787 Epoch 3062/20000
6788 - 0s - loss: 10.2841 -
     mean_absolute_error: 2.0500 - val_loss
       12.7048 - val_mean_absolute_error: 2
      1732
6789 Epoch 3063/20000
6790 - 0s - loss: 7.6524
     mean_absolute_error: 2.0023 - val_loss
       12.7041 - val_mean_absolute_error:
     1732
6791 Epoch 3064/20000
     - 0s - loss: 8.8058 -
6792
     mean_absolute_error: 2.0958 - val_loss
       12.7044 - val_mean_absolute_error:
      1732
6793 Epoch 3065/20000
```

```
- 0s - loss: 10.1872 -
6794
     mean_absolute_error: 2.1936 - val_loss
       12.7039 - val_mean_absolute_error: 2
      1732
6795 Epoch 3066/20000
     - 0s - loss: 7.2309 -
6796
     mean_absolute_error: 1.8756 - val_loss
       12.7035 - val_mean_absolute_error: 2
      1731
6797 Epoch 3067/20000
6798 - 0s - loss: 7.4212 -
     mean_absolute_error: 1.9560 - val_loss
       12.7023 - val_mean_absolute_error: 2
     1731
6799 Epoch 3068/20000
     - 0s - loss: 7.4314 -
6800
     mean_absolute_error: 1.9196 - val_loss
       12.7037 - val_mean_absolute_error: 2
      1732
6801 Epoch 3069/20000
     - 0s - loss: 8.0123 -
6802
     mean_absolute_error: 2.0065 - val_loss
      12.7042 - val_mean_absolute_error: 2
     1732
```

```
File - boston01
6803 Epoch 3070/20000
      - 0s - loss: 8.3924 -
6804
     mean_absolute_error: 2.0451 - val_loss
       12.7038 - val_mean_absolute_error: 2
      1732
6805
     Epoch 03070: saving model to ./model/
6806
     model_best.h5
6807 Epoch 3071/20000
6808 - 0s - loss: 8.0000 -
     mean_absolute_error: 2.0186 - val_loss
       12.7040 - val_mean_absolute_error: 2
      1733
6809 Epoch 3072/20000
6810 - 0s - Loss: 9.1687
     mean_absolute_error: 2.1254 - val_loss
       12.7033 - val_mean_absolute_error: 2
      1732
6811 Epoch 3073/20000
      - 0s - loss: 8.3490 -
6812
     mean_absolute_error: 2.0598 - val_loss
       12.7028 - val_mean_absolute_error:
      1732
6813 Epoch 3074/20000
```

```
- 0s - loss: 7.6113 -
6814
     mean_absolute_error: 1.9356 - val_loss
       12.7037 - val_mean_absolute_error: 2
      1733
6815 Epoch 3075/20000
6816 - Os - Loss: 7.7789 -
     mean_absolute_error: 2.0587 - val_loss
       12.7038 - val_mean_absolute_error: 2
     1733
6817 Epoch 3076/20000
6818 - 0s - loss: 7.0501 -
     mean_absolute_error: 1.9723 - val_loss
       12.7047 - val_mean_absolute_error: 2
      1734
6819 Epoch 3077/20000
     - 0s - loss: 7.0545 -
6820 l
     mean_absolute_error: 1.9657 - val loss
       12.7047 - val_mean_absolute_error: 2
      1734
6821 Epoch 3078/20000
     - 0s - loss: 6.9270 -
6822
     mean_absolute_error: 1.9791 - val_loss
      12.7058 - val_mean_absolute_error: 2
     1735
```

```
File - boston01
6823 Epoch 3079/20000
      - 0s - loss: 7.2146 -
6824
     mean_absolute_error: 1.9088 - val_loss
       12.7044 - val_mean_absolute_error: 2
      1733
6825 Epoch 3080/20000
6826 - 0s - loss: 6.6034 -
     mean_absolute_error: 1.8937 - val_loss
       12.7041 - val_mean_absolute_error: 2
      . 1733
6827
6828 Epoch 03080: saving model to ./model/
     model_best.h5
6829 Epoch 3081/20000
6830 - 0s - loss: 7.5665 -
     mean_absolute_error: 2.0194 - val_loss
       12.7042 - val_mean_absolute_error: 2
      1733
6831 Epoch 3082/20000
6832 - 0s - loss: 7.6617 -
     mean_absolute_error: 2.0057 - val_loss
       12.7045 - val_mean_absolute_error:
      1733
6833 Epoch 3083/20000
```

mean_absolute_error: 2.0013 - val_loss : 12.7039 - val_mean_absolute_error: 2

6839 Epoch 3086/20000

6840 - 0s - loss: 7.7256 - mean_absolute_error: 2.0508 - val_loss : 12.7041 - val_mean_absolute_error: 2 . 1734

6841 Epoch 3087/20000

6842 - 0s - loss: 6.1980 - mean_absolute_error: 1.8418 - val_loss : 12.7037 - val_mean_absolute_error: 2 .1734

```
File - boston01
6843 Epoch 3088/20000
      - 0s - loss: 7.4798 -
6844
     mean_absolute_error: 1.9633 - val_loss
       12.7031 - val_mean_absolute_error: 2
      1733
6845 Epoch 3089/20000
6846 - Os - Loss: 8.4702 -
     mean_absolute_error: 2.0726 - val_loss
       12.7027 - val_mean_absolute_error: 2
      1733
6847 Epoch 3090/20000
      - 0s - loss: 6.7026 -
6848
     mean_absolute_error: 1.9393 - val_loss
       12.7024 - val_mean_absolute_error: 2
      . 1733
6849
6850 Epoch 03090: saving model to ./model/
     model_best.h5
6851 Epoch 3091/20000
      - 0s - loss: 7.6806 -
6852 l
     mean_absolute_error: 1.9935 - val_loss
       12.7025 - val_mean_absolute_error:
      1733
6853 Epoch 3092/20000
```

```
- 0s - loss: 8.1118 -
```

mean_absolute_error: 1.9694 - val_loss

: 12.7026 - val_mean_absolute_error: 2

. 1733

6855 Epoch 3093/20000

6856 - Os - Ioss: 7.4574 -

mean_absolute_error: 1.9963 - val_loss

: 12.7017 - val_mean_absolute_error: 2

. 1732

6857 Epoch 3094/20000

6858 - Os - Ioss: 7.7742 -

mean_absolute_error: 2.0111 - val_loss

: 12.7009 - val_mean_absolute_error: 2

. 1732

6859 Epoch 3095/20000

6860 - 0s - loss: 7.1701 -

mean_absolute_error: 1.8985 - val_loss

: 12.7007 - val_mean_absolute_error: 2

. 1732

6861 Epoch 3096/20000

6862 - 0s - loss: 7.9211 -

mean_absolute_error: 2.0073 - val_loss

: 12.7013 - val_mean_absolute_error: 2

. 1732

```
File - boston01
6863 Epoch 3097/20000
      - 0s - loss: 7.9720 -
6864
     mean_absolute_error: 2.0298 - val_loss
       12.7008 - val_mean_absolute_error: 2
      1732
6865 Epoch 3098/20000
      - 0s - loss: 7.7961 -
6866
     mean_absolute_error: 1.9787 - val_loss
       12.6994 - val_mean_absolute_error: 2
      . 1732
6867 Epoch 3099/20000
     - 0s - loss: 9.7183 -
6868
     mean_absolute_error: 2.1548 - val_loss
       12.6996 - val_mean_absolute_error: 2
      1732
6869 Epoch 3100/20000
6870 - 0s - loss: 7.6709 -
     mean_absolute_error: 1.9619 - val_loss
       12.6995 - val_mean_absolute_error: 2
      1732
6871
6872 Epoch 03100: saving model to ./model/
     model_best.h5
6873 Epoch 3101/20000
```

```
- 0s - loss: 7.1085 -
6874
     mean_absolute_error: 1.9466 - val_loss
       12.6989 - val_mean_absolute_error: 2
      1731
6875 Epoch 3102/20000
     - 0s - loss: 7.0971 -
6876
     mean_absolute_error: 1.9498 - val_loss
       12.6987 - val_mean_absolute_error: 2
     1731
6877 Epoch 3103/20000
     - 0s - loss: 7.6320 -
6878 I
     mean_absolute_error: 1.9956 - val_loss
       12.6984 - val_mean_absolute_error: 2
     1731
6879 Epoch 3104/20000
     - 0s - loss: 7.3727 -
6880
     mean_absolute_error: 1.9619 - val_loss
       12.6977 - val_mean_absolute_error: 2
      1730
6881 Epoch 3105/20000
     - 0s - loss: 7.5993 -
6882
     mean_absolute_error: 1.9684 - val_loss
       12.6979 - val_mean_absolute_error: 2
     1730
```

```
File - boston01
6883 Epoch 3106/20000
      - 0s - Loss: 8.5852 -
6884
     mean_absolute_error: 2.1183 - val_loss
       12.6989 - val_mean_absolute_error: 2
      1731
6885 Epoch 3107/20000
      - 0s - loss: 6.7815 -
6886
     mean_absolute_error: 1.9378 - val_loss
       12.6999 - val_mean_absolute_error: 2
      . 1732
6887 Epoch 3108/20000
      - 0s - loss: 8.1686 -
6888
     mean_absolute_error: 1.8831 - val_loss
       12.7007 - val_mean_absolute_error: 2
      1733
6889 Epoch 3109/20000
     - 0s - loss: 7.6462 -
6890 l
     mean_absolute_error: 1.9041 - val_loss
       12.7006 - val_mean_absolute_error: 2
      1733
6891 Epoch 3110/20000
     - 0s - Loss: 7.8815
6892
     mean_absolute_error: 1.9979 - val_loss
      12.7014 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1734
6892
6893
6894 Epoch 03110: saving model to ./model/
     model_best.h5
6895 Epoch 3111/20000
     - 0s - loss: 7.5135 -
6896
     mean_absolute_error: 1.9992 - val_loss
       12.7017 - val_mean_absolute_error: 2
      1734
6897 Epoch 3112/20000
6898 - 0s - loss: 7.0612 -
     mean_absolute_error: 1.8958 - val_loss
       12.7014 - val_mean_absolute_error: 2
      1733
6899 Epoch 3113/20000
      - 0s - loss: 7.6754 -
6900
     mean_absolute_error: 2.0265 - val_loss
       12.7001 - val_mean_absolute_error: 2
      1732
6901 Epoch 3114/20000
6902
      - 0s - loss: 7.5696 -
     mean_absolute_error: 1.9851 - val_loss
      12.6992 - val_mean_absolute_error: 2
      1731
```

```
File - boston01
6903 Epoch 3115/20000
      - 0s - loss: 9.0893 -
6904
     mean_absolute_error: 2.2113 - val_loss
       12.6992 - val_mean_absolute_error: 2
      1731
6905 Epoch 3116/20000
      - 0s - loss: 7.2114 -
6906
     mean_absolute_error: 1.9678 - val_loss
       12.6984 - val_mean_absolute_error: 2
      . 1731
6907 Epoch 3117/20000
      - 0s - loss: 7.2112 -
6908
     mean_absolute_error: 1.9319 - val_loss
       12.6985 - val_mean_absolute_error: 2
      1731
6909 Epoch 3118/20000
6910 - 0s - loss: 8.4662 -
     mean_absolute_error: 2.1196 - val_loss
       12.6985 - val_mean_absolute_error: 2
      1731
6911 Epoch 3119/20000
6912 - 0s - loss: 8.1625
     mean_absolute_error: 2.0212 - val_loss
```

12.6986 - val_mean_absolute_error: 2

```
File - boston01
     . 1731
6912
6913 Epoch 3120/20000
6914 - 0s - loss: 7.3947
     mean_absolute_error: 2.0051 - val_loss
       12.6982 - val_mean_absolute_error: 2
      1731
6915
6916 Epoch 03120: saving model to ./model/
     model_best.h5
6917 Epoch 3121/20000
6918 - 0s - loss: 7.0068 -
     mean_absolute_error: 1.8715 - val_loss
       12.6977 - val_mean_absolute_error: 2
      1731
6919 Epoch 3122/20000
      - 0s - loss: 7.2277 -
6920
     mean_absolute_error: 1.9761 - val loss
       12.6989 - val_mean_absolute_error: 2
      1732
6921 Epoch 3123/20000
      - 0s - loss: 6.9670 -
6922
     mean_absolute_error: 1.8980 - val_loss
     : 12.6985 - val_mean_absolute_error: 2
      1731
```

```
File - boston01
6923 Epoch 3124/20000
      - 0s - loss: 6.8197 -
6924
     mean_absolute_error: 1.9097 - val_loss
       12.6987 - val_mean_absolute_error: 2
      1731
6925 Epoch 3125/20000
      - 0s - loss: 8.8303 -
6926
     mean_absolute_error: 2.0422 - val_loss
       12.6981 - val_mean_absolute_error: 2
      1731
6927 Epoch 3126/20000
      - 0s - loss: 7.7515 -
6928
     mean_absolute_error: 1.9707 - val_loss
       12.6975 - val_mean_absolute_error: 2
      1731
6929 Epoch 3127/20000
6930 - 0s - loss: 7.6622 -
     mean_absolute_error: 1.9873 - val_loss
       12.6973 - val_mean_absolute_error: 2
      1730
6931 Epoch 3128/20000
     - 0s - loss: 7.2694
6932
     mean_absolute_error: 2.0691 - val_loss
      12.6975 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1731
6932
6933 Epoch 3129/20000
      - 0s - loss: 6.1181
6934
     mean_absolute_error: 1.7794 - val_loss
       12.6976 - val_mean_absolute_error: 2
      1731
6935 Epoch 3130/20000
     - 0s - loss: 7.6141
6936
     mean_absolute_error: 2.0232 - val_loss
       12.6968 - val_mean_absolute_error:
      . 1730
6937
6938 Epoch 03130: saving model to ./model/
     model_best.h5
6939 Epoch 3131/20000
      - 0s - loss: 5.5439 -
6940
     mean_absolute_error: 1.8179 - val loss
       12.6970 - val_mean_absolute_error: 2
      1730
6941 Epoch 3132/20000
      - 0s - loss: 7.8640 -
6942
     mean_absolute_error: 1.9998 - val_loss
      12.6965 - val_mean_absolute_error: 2
      1730
```

```
File - boston01
6943 Epoch 3133/20000
      - 0s - Loss: 8.3184 -
6944
     mean_absolute_error: 2.1097 - val_loss
       12.6973 - val_mean_absolute_error: 2
      1730
6945 Epoch 3134/20000
      - 0s - loss: 8.1014 -
6946
     mean_absolute_error: 1.9806 - val_loss
       12.6969 - val_mean_absolute_error: 2
      1729
6947 Epoch 3135/20000
      - 0s - loss: 8.3465 -
6948
     mean_absolute_error: 2.1612 - val_loss
       12.6965 - val_mean_absolute_error: 2
      1729
6949 Epoch 3136/20000
      - 0s - loss: 8.7936 -
6950
     mean_absolute_error: 2.0704 - val_loss
       12.6969 - val_mean_absolute_error: 2
      1729
6951 Epoch 3137/20000
      - 0s - Loss: 8.0515
6952
     mean_absolute_error: 1.9597 - val_loss
      12.6968 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1728
6952
6953 Epoch 3138/20000
      - 0s - loss: 7.4009
6954
     mean_absolute_error: 1.9711 - val_loss
       12.6969 - val_mean_absolute_error: 2
      1729
6955 Epoch 3139/20000
6956 - 0s - loss: 8.2846 -
     mean_absolute_error: 2.0751 - val_loss
       12.6970 - val_mean_absolute_error:
      1729
6957 Epoch 3140/20000
6958
      - 0s - loss: 7.8181 -
     mean_absolute_error: 2.0367 - val_loss
       12.6966 - val_mean_absolute_error:
      . 1729
6959
6960 Epoch 03140: saving model to ./model/
     model_best.h5
6961 Epoch 3141/20000
      - 0s - loss: 6.7687 -
6962
     mean_absolute_error: 1.9046 - val_loss
      12.6966 - val_mean_absolute_error: 2
      1729
```

```
File - boston01
6963 Epoch 3142/20000
      - 0s - loss: 5.9452 -
6964
     mean_absolute_error: 1.8228 - val_loss
       12.6970 - val_mean_absolute_error: 2
      1729
6965 Epoch 3143/20000
      - 0s - loss: 6.6352 -
6966
     mean_absolute_error: 1.9546 - val_loss
       12.6967 - val_mean_absolute_error: 2
      1729
6967 Epoch 3144/20000
      - 0s - loss: 6.7537 -
6968
     mean_absolute_error: 1.9050 - val_loss
       12.6963 - val_mean_absolute_error: 2
      1729
6969 Epoch 3145/20000
      - 0s - loss: 7.3773 -
6970 l
     mean_absolute_error: 2.0357 - val_loss
       12.6956 - val_mean_absolute_error: 2
      1729
6971 Epoch 3146/20000
6972 - 0s - loss: 7.8003
     mean_absolute_error: 1.9956 - val_loss
      12.6962 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1729
6972
6973 Epoch 3147/20000
6974 - 0s - loss: 7.9236
     mean_absolute_error: 2.0570 - val_loss
       12.6967 - val_mean_absolute_error: 2
      1730
6975 Epoch 3148/20000
6976 - 0s - loss: 9.3475 -
     mean_absolute_error: 2.0483 - val_loss
       12.6971 - val_mean_absolute_error:
      1730
6977 Epoch 3149/20000
6978
     - 0s - loss: 6.7362 -
     mean_absolute_error: 1.8992 - val_loss
       12.6962 - val_mean_absolute_error:
      1730
6979 Epoch 3150/20000
      - 0s - loss: 7.3235 -
6980
     mean_absolute_error: 2.0029 - val_loss
       12.6949 - val_mean_absolute_error:
      1728
6981
     Epoch 03150: saving model to ./model/
6982
     model_best.h5
```

```
File - boston01
6983 Epoch 3151/20000
      - 0s - loss: 7.9578 -
6984
     mean_absolute_error: 2.0047 - val_loss
       12.6943 - val_mean_absolute_error: 2
      1728
6985 Epoch 3152/20000
      - 0s - loss: 7.9404 -
6986
     mean_absolute_error: 2.1236 - val_loss
       12.6937 - val_mean_absolute_error: 2
      . 1727
6987 Epoch 3153/20000
      - 0s - loss: 6.9530 -
6988
     mean_absolute_error: 1.9187 - val_loss
       12.6932 - val_mean_absolute_error: 2
      1726
6989 Epoch 3154/20000
      - 0s - loss: 7.7972 -
6990
     mean_absolute_error: 1.9556 - val_loss
       12.6937 - val_mean_absolute_error: 2
      1727
6991 Epoch 3155/20000
     - 0s - Loss: 7.3839
6992
     mean_absolute_error: 1.9894 - val_loss
      12.6921 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1726
6992
6993 Epoch 3156/20000
      - 0s - loss: 6.6916
6994
     mean_absolute_error: 1.9417 - val_loss
       12.6918 - val_mean_absolute_error: 2
      1725
6995 Epoch 3157/20000
      - 0s - Loss: 6.1393
6996
     mean_absolute_error: 1.7674 - val_loss
       12.6924 - val_mean_absolute_error:
      1725
6997 Epoch 3158/20000
6998
      - 0s - loss: 8.7793 -
     mean_absolute_error: 2.0905 - val_loss
       12.6921 - val_mean_absolute_error:
      1725
6999 Epoch 3159/20000
7000 - 0s - loss: 8.2965 -
     mean_absolute_error: 2.0952 - val_loss
       12.6927 - val_mean_absolute_error:
      1726
7001 Epoch 3160/20000
7002
      - 0s - loss: 7.2853 -
     mean_absolute_error: 2.0345 - val_loss
```

```
12.6929 - val_mean_absolute_error: 2
7002
     1726
7003
7004 Epoch 03160: saving model to ./model/
     model_best.h5
7005 Epoch 3161/20000
     - 0s - loss: 8.9201
7006
     mean_absolute_error: 2.0708 - val_loss
       12.6936 - val_mean_absolute_error: 2
     . 1727
7007 Epoch 3162/20000
7008 - 0s - loss: 7.5005 -
     mean_absolute_error: 1.9759 - val_loss
       12.6931 - val_mean_absolute_error: 2
     1727
7009 Epoch 3163/20000
7010 - 0s - loss: 8.9584 -
     mean_absolute_error: 2.0872 - val_loss
       12.6933 - val_mean_absolute_error: 2
     1728
7011 Epoch 3164/20000
7012 - 0s - Loss: 8.4383
     mean_absolute_error: 2.0764 - val_loss
     12.6945 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1728
7012
7013 Epoch 3165/20000
7014 - 0s - Loss: 7.8024
     mean_absolute_error: 1.9862 - val_loss
       12.6951 - val_mean_absolute_error: 2
      1729
7015 Epoch 3166/20000
7016 - 0s - loss: 7.1529 -
     mean_absolute_error: 1.9961 - val_loss
       12.6960 - val_mean_absolute_error:
      1730
7017 Epoch 3167/20000
     - 0s - loss: 7.1597 -
7018
     mean_absolute_error: 1.9761 - val_loss
       12.6957 - val_mean_absolute_error: 2
      1730
7019 Epoch 3168/20000
7020 - 0s - loss: 9.0514 -
     mean_absolute_error: 2.1745 - val_loss
       12.6961 - val_mean_absolute_error:
      1730
7021 Epoch 3169/20000
7022 - 0s - loss: 7.7064 -
     mean_absolute_error: 1.9977 - val_l<u>oss</u>
```

```
12.6964 - val_mean_absolute_error: 2
7022
     1730
7023 Epoch 3170/20000
     - 0s - loss: 8.4240 -
7024
     mean_absolute_error: 2.1839 - val_loss
       12.6966 - val_mean_absolute_error: 2
     . 1730
7025
7026 Epoch 03170: saving model to ./model/
     model best.h5
7027 Epoch 3171/20000
7028 - 0s - loss: 6,4326 -
     mean_absolute_error: 1.9688 - val_loss
       12.6971 - val_mean_absolute_error: 2
     1730
7029 Epoch 3172/20000
7030 - 0s - loss: 6.8677 -
     mean_absolute_error: 1.9055 - val_loss
       12.6963 - val_mean_absolute_error: 2
     1729
7031 Epoch 3173/20000
7032 - 0s - Loss: 6.9496
     mean_absolute_error: 1.9628 - val_loss
     12.6970 - val_mean_absolute_error: 2
```

```
File - boston01
7032
     . 1729
7033 Epoch 3174/20000
7034 - 0s - loss: 7.9539
     mean_absolute_error: 2.0364 - val_loss
       12.6956 - val_mean_absolute_error: 2
      1728
7035 Epoch 3175/20000
7036 - 0s - loss: 7.3238
     mean_absolute_error: 1.9602 - val_loss
       12.6951 - val_mean_absolute_error:
      1728
7037 Epoch 3176/20000
7038 - 0s - loss: 8.0435 -
     mean_absolute_error: 2.0051 - val_loss
       12.6953 - val_mean_absolute_error: 2
      1729
7039 Epoch 3177/20000
7040 - 0s - loss: 7.6474 -
     mean_absolute_error: 2.0457 - val_loss
       12.6950 - val_mean_absolute_error:
      1729
7041 Epoch 3178/20000
7042 - 0s - loss: 7.4924 -
     mean_absolute_error: 1.9611 - val_loss
```

```
12.6945 - val_mean_absolute_error: 2
7042
     1728
7043 Epoch 3179/20000
     - 0s - loss: 8.2861 -
7044
     mean_absolute_error: 2.1234 - val_loss
       12.6946 - val_mean_absolute_error: 2
      1728
7045 Epoch 3180/20000
7046
     - 0s - loss: 8.7640 -
     mean_absolute_error: 2.1068 - val_loss
       12.6956 - val_mean_absolute_error: 2
     1729
7047
    Epoch 03180: saving model to ./model/
7048
     model_best.h5
7049 Epoch 3181/20000
7050 - 0s - loss: 9.0845 -
     mean_absolute_error: 2.0786 - val_loss
       12.6962 - val_mean_absolute_error: 2
     1730
7051 Epoch 3182/20000
7052 - 0s - loss: 7.4179
     mean_absolute_error: 2.0179 - val_loss
     12.6965 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1730
7052
7053 Epoch 3183/20000
      - 0s - loss: 7.5392
7054
     mean_absolute_error: 2.0288 - val_loss
       12.6968 - val_mean_absolute_error: 2
      1730
7055 Epoch 3184/20000
7056 - 0s - Loss: 6.9030
     mean_absolute_error: 1.9976 - val_loss
       12.6985 - val_mean_absolute_error:
      1731
7057 Epoch 3185/20000
7058
     - 0s - loss: 7.3317 -
     mean_absolute_error: 1.9861 - val_loss
       12.6977 - val_mean_absolute_error: 2
      1731
7059 Epoch 3186/20000
7060 - 0s - loss: 9.2286 -
     mean_absolute_error: 2.1211 - val_loss
       12.6986 - val_mean_absolute_error:
      1732
7061 Epoch 3187/20000
     - 0s - loss: 7.1032 -
7062
     mean_absolute_error: 2.0077 - val_l<u>oss</u>
```

```
12.6985 - val_mean_absolute_error: 2
7062
     1732
7063 Epoch 3188/20000
     - 0s - loss: 6.8847 -
7064
     mean_absolute_error: 1.8753 - val_loss
       12.6974 - val_mean_absolute_error: 2
      1731
7065 Epoch 3189/20000
7066
     - 0s - loss: 7.2141 -
     mean_absolute_error: 1.9926 - val_loss
       12.6983 - val_mean_absolute_error: 2
      1731
7067 Epoch 3190/20000
     - 0s - loss: 7.5477 -
7068
     mean_absolute_error: 2.0544 - val_loss
       12.6986 - val_mean_absolute_error: 2
     . 1732
7069
7070 Epoch 03190: saving model to ./model/
     model_best.h5
7071 Epoch 3191/20000
7072 - 0s - loss: 7.4140
     mean_absolute_error: 2.0191 - val_loss
      12.6975 - val_mean_absolute_error: 2
```

```
File - boston01
     . 1731
7072
7073 Epoch 3192/20000
7074 - 0s - loss: 7.6554
     mean_absolute_error: 2.0130 - val_loss
       12.6973 - val_mean_absolute_error: 2
      1731
7075 Epoch 3193/20000
7076 - 0s - loss: 7.8266 -
     mean_absolute_error: 2.1064 - val_loss
       12.6969 - val_mean_absolute_error:
      1731
7077 Epoch 3194/20000
7078 - 0s - loss: 8.0108 -
     mean_absolute_error: 2.0750 - val_loss
       12.6962 - val_mean_absolute_error: 2
      1730
7079 Epoch 3195/20000
7080 - 0s - loss: 8.4531 -
     mean_absolute_error: 2.0245 - val_loss
       12.6960 - val_mean_absolute_error:
      1730
7081 Epoch 3196/20000
      - 0s - loss: 8.9360 -
7082
     mean_absolute_error: 2.1375 - val_loss
```

```
12.6959 - val_mean_absolute_error: 2
7082
     1730
7083 Epoch 3197/20000
     - 0s - loss: 7.6537 -
7084
     mean_absolute_error: 1.9091 - val_loss
      12.6963 - val_mean_absolute_error: 2
      1730
7085 Epoch 3198/20000
7086
     - 0s - loss: 9.8607 -
     mean_absolute_error: 2.1304 - val_loss
       12.6967 - val_mean_absolute_error: 2
     1731
7087 Epoch 3199/20000
     - 0s - loss: 7.6691 -
7088
     mean_absolute_error: 1.9431 - val_loss
      12.6964 - val_mean_absolute_error: 2
     1731
7089 Epoch 3200/20000
7090 - 0s - loss: 7.6584 -
     mean_absolute_error: 2.0186 - val_loss
       12.6955 - val_mean_absolute_error: 2
     1730
7091
7092 Epoch 03200: saving model to ./model/
```

```
File - boston01
7092 model_best.h5
7093 Epoch 3201/20000
7094 - 0s - loss: 6.0446
     mean_absolute_error: 1.8831 - val_loss
       12.6951 - val_mean_absolute_error: 2
      1730
7095 Epoch 3202/20000
7096 - 0s - loss: 7.0546 -
     mean_absolute_error: 1.8962 - val_loss
       12.6942 - val_mean_absolute_error: 2
      1729
7097 Epoch 3203/20000
7098 - 0s - loss: 7.7693 -
     mean_absolute_error: 2.0066 - val_loss
       12.6950 - val_mean_absolute_error: 2
      1729
7099 Epoch 3204/20000
7100 - 0s - loss: 7.1678 -
     mean_absolute_error: 2.0260 - val_loss
       12.6959 - val_mean_absolute_error:
      1730
7101 Epoch 3205/20000
7102 - 0s - loss: 8.3036 -
     mean_absolute_error: 2.0211 - val_loss
```

```
: 12.6960 - val_mean_absolute_error: 2
7102
     1731
7103 Epoch 3206/20000
7104 - 0s - loss: 7.4714 -
     mean_absolute_error: 1.9920 - val_loss
       12.6960 - val_mean_absolute_error: 2
      1731
7105 Epoch 3207/20000
     - 0s - loss: 6.0209 -
7106
     mean_absolute_error: 1.8204 - val_loss
       12.6955 - val_mean_absolute_error: 2
      1731
7107 Epoch 3208/20000
     - 0s - loss: 7.7381 -
7108
     mean_absolute_error: 2.0709 - val_loss
       12.6954 - val_mean_absolute_error: 2
     . 1731
7109 Epoch 3209/20000
7110 - 0s - loss: 8.0135 -
     mean_absolute_error: 1.9279 - val_loss
       12.6961 - val_mean_absolute_error: 2
      1732
7111 Epoch 3210/20000
7112 - 0s - loss: 7.0928 -
```

```
7112 mean_absolute_error: 1.8823 - val_loss
       12.6962 - val_mean_absolute_error: 2
     1733
7113
7114 Epoch 03210: saving model to ./model/
     model_best.h5
7115 Epoch 3211/20000
7116 - 0s - loss: 7.6414 -
     mean_absolute_error: 2.0032 - val_loss
       12.6958 - val_mean_absolute_error: 2
     1732
7117 Epoch 3212/20000
7118 - 0s - loss: 7.0416 -
     mean_absolute_error: 1.8843 - val_loss
       12.6952 - val_mean_absolute_error: 2
      1732
7119 Epoch 3213/20000
7120 - 0s - loss: 8.9974 -
     mean_absolute_error: 2.1195 - val_loss
       12.6946 - val_mean_absolute_error: 2
     1731
7121 Epoch 3214/20000
7122 - 0s - loss: 9.4053 -
     mean_absolute_error: 2.1329 - val_l<u>oss</u>
```

```
: 12.6935 - val_mean_absolute_error: 2
7122
     1731
7123 Epoch 3215/20000
     - 0s - loss: 7.0289 -
7124
     mean_absolute_error: 1.9424 - val_loss
       12.6930 - val_mean_absolute_error: 2
      1730
7125 Epoch 3216/20000
     - 0s - loss: 7.1704 -
7126
     mean_absolute_error: 1.9402 - val_loss
       12.6933 - val_mean_absolute_error: 2
      1730
7127 Epoch 3217/20000
     - Os - loss: 8.2842 -
7128
     mean_absolute_error: 2.0029 - val_loss
       12.6935 - val_mean_absolute_error: 2
     . 1730
7129 Epoch 3218/20000
7130 - 0s - loss: 7.9697 -
     mean_absolute_error: 2.0153 - val_loss
       12.6937 - val_mean_absolute_error: 2
      1730
7131 Epoch 3219/20000
7132 - 0s - loss: 7.6703 -
```

```
7132 mean_absolute_error: 1.9451 - val_loss
       12.6935 - val_mean_absolute_error: 2
      1730
7133 Epoch 3220/20000
     - 0s - loss: 7.8345 -
7134
     mean_absolute_error: 2.0387 - val_loss
       12.6942 - val_mean_absolute_error: 2
     . 1731
7135
7136 Epoch 03220: saving model to ./model/
     model_best.h5
7137 Epoch 3221/20000
7138 - 0s - loss: 8.2636 -
     mean_absolute_error: 2.0329 - val_loss
       12.6945 - val_mean_absolute_error: 2
      1731
7139 Epoch 3222/20000
7140 - 0s - loss: 7.7009 -
     mean_absolute_error: 1.9762 - val_loss
       12.6947 - val_mean_absolute_error:
     1731
7141 Epoch 3223/20000
7142 - 0s - loss: 7.3069 -
     mean_absolute_error: 2.0048 - val_loss
```

```
: 12.6946 - val_mean_absolute_error: 2
7142
     1731
7143 Epoch 3224/20000
     - 0s - loss: 10.1575 -
7144
     mean_absolute_error: 2.1223 - val_loss
       12.6962 - val_mean_absolute_error: 2
      1732
7145 Epoch 3225/20000
7146
     - 0s - loss: 8.5443 -
     mean_absolute_error: 2.1054 - val_loss
       12.6962 - val_mean_absolute_error: 2
     1732
7147 Epoch 3226/20000
     - 0s - loss: 8.3154 -
7148
     mean_absolute_error: 2.0257 - val_loss
       12.6961 - val_mean_absolute_error: 2
     . 1732
7149 Epoch 3227/20000
7150 - 0s - loss: 7.4386 -
     mean_absolute_error: 2.0006 - val_loss
       12.6958 - val_mean_absolute_error: 2
     1732
7151 Epoch 3228/20000
7152 - 0s - loss: 7.1353
```

```
7152 mean_absolute_error: 1.9738 - val_loss
       12.6966 - val_mean_absolute_error: 2
     1732
7153 Epoch 3229/20000
7154 - 0s - loss: 9.4248 -
     mean_absolute_error: 2.0531 - val_loss
       12.6978 - val_mean_absolute_error: 2
     1733
7155 Epoch 3230/20000
7156 - 0s - loss: 7.9324 -
     mean_absolute_error: 2.0756 - val_loss
       12.6984 - val_mean_absolute_error: 2
     1733
7157
7158 Epoch 03230: saving model to ./model/
     model_best.h5
7159 Epoch 3231/20000
7160 - 0s - loss: 6.7943 -
     mean_absolute_error: 1.8619 - val_loss
       12.6973 - val_mean_absolute_error:
     1732
7161 Epoch 3232/20000
7162 - 0s - loss: 6.8694 -
     mean_absolute_error: 1.9883 - val_loss
```

```
: 12.6967 - val_mean_absolute_error: 2
7162
     1731
7163 Epoch 3233/20000
7164 - 0s - loss: 7.3750 -
     mean_absolute_error: 2.0246 - val_loss
       12.6968 - val_mean_absolute_error: 2
      1731
7165 Epoch 3234/20000
     - 0s - loss: 8.0647 -
7166
     mean_absolute_error: 1.9849 - val_loss
       12.6970 - val_mean_absolute_error: 2
      1731
7167 Epoch 3235/20000
     - 0s - loss: 7.6817 -
7168
     mean_absolute_error: 2.0386 - val_loss
       12.6981 - val_mean_absolute_error: 2
     . 1733
7169 Epoch 3236/20000
7170 - 0s - loss: 7.6417 -
     mean_absolute_error: 1.9697 - val_loss
       12.6983 - val_mean_absolute_error: 2
      1733
7171 Epoch 3237/20000
7172 - 0s - loss: 7.9500 -
```

```
7172 mean_absolute_error: 2.0402 - val_loss
       12.6987 - val_mean_absolute_error: 2
      1733
7173 Epoch 3238/20000
7174 - 0s - loss: 8.5662 -
     mean_absolute_error: 2.0538 - val_loss
       12.6992 - val_mean_absolute_error: 2
     1734
7175 Epoch 3239/20000
7176 - 0s - loss: 8.1283 -
     mean_absolute_error: 2.0489 - val_loss
       12.6986 - val_mean_absolute_error: 2
     1733
7177 Epoch 3240/20000
7178 - 0s - loss: 7.0406 -
     mean_absolute_error: 1.9164 - val_loss
      12.6975 - val_mean_absolute_error: 2
     . 1732
7179
7180 Epoch 03240: saving model to ./model/
     model_best.h5
7181 Epoch 3241/20000
7182 - 0s - loss: 6.9511 -
     mean_absolute_error: 1.8462 - val_loss
```

```
12.6970 - val_mean_absolute_error: 2
7182
     1731
7183 Epoch 3242/20000
     - 0s - loss: 9.3464 -
7184
     mean_absolute_error: 2.0489 - val_loss
       12.6972 - val_mean_absolute_error: 2
      1731
7185 Epoch 3243/20000
7186
     - 0s - loss: 8.5704 -
     mean_absolute_error: 2.0712 - val_loss
       12.6968 - val_mean_absolute_error: 2
     1731
7187 Epoch 3244/20000
     - 0s - loss: 8.2438 -
7188
     mean_absolute_error: 2.0759 - val_loss
       12.6965 - val_mean_absolute_error: 2
     1731
7189 Epoch 3245/20000
7190 - 0s - loss: 7.7432 -
     mean_absolute_error: 2.0055 - val_loss
       12.6964 - val_mean_absolute_error: 2
     1731
7191 Epoch 3246/20000
7192 - 0s - loss: 9.2115 -
```

```
7192 mean_absolute_error: 2.1810 - val_loss
       12.6972 - val_mean_absolute_error: 2
     1732
7193 Epoch 3247/20000
7194 - 0s - loss: 8.4509 -
     mean_absolute_error: 1.9821 - val_loss
       12.6973 - val_mean_absolute_error: 2
     . 1731
7195 Epoch 3248/20000
7196 - 0s - loss: 7.9493 -
     mean_absolute_error: 1.9680 - val_loss
       12.6968 - val_mean_absolute_error: 2
     1731
7197 Epoch 3249/20000
7198 - 0s - loss: 7.2235
     mean_absolute_error: 1.9323 - val_loss
       12.6965 - val_mean_absolute_error: 2
     1731
7199 Epoch 3250/20000
7200 - 0s - loss: 6.9447 -
     mean_absolute_error: 1.8827 - val_loss
     : 12.6967 - val_mean_absolute_error: 2
     . 1731
```

7201

```
7202 Epoch 03250: saving model to ./model/
     model best.h5
7203 Epoch 3251/20000
7204 - 0s - loss: 6.2724 -
     mean_absolute_error: 1.8556 - val_loss
       12.6973 - val_mean_absolute_error: 2
      1731
7205 Epoch 3252/20000
     - 0s - loss: 7.3886 -
7206
     mean_absolute_error: 2.0401 - val_loss
       12.6968 - val_mean_absolute_error: 2
      1731
7207 Epoch 3253/20000
     - Os - loss: 7.9427 -
7208
     mean_absolute_error: 2.0046 - val_loss
       12.6973 - val_mean_absolute_error: 2
     . 1731
7209 Epoch 3254/20000
7210 - 0s - loss: 6.8866 -
     mean_absolute_error: 1.9080 - val_loss
       12.6965 - val_mean_absolute_error: 2
     1730
7211 Epoch 3255/20000
7212 - 0s - loss: 8.3994
```

```
7212 mean_absolute_error: 2.1347 - val_loss
       12.6980 - val_mean_absolute_error: 2
     1730
7213 Epoch 3256/20000
7214 - 0s - loss: 9.0286 -
     mean_absolute_error: 2.1324 - val_loss
       12.6982 - val_mean_absolute_error: 2
     . 1730
7215 Epoch 3257/20000
7216 - 0s - loss: 7.0214 -
     mean_absolute_error: 1.9509 - val_loss
       12.6972 - val_mean_absolute_error: 2
     1730
7217 Epoch 3258/20000
7218 - 0s - loss: 6.0438 -
     mean_absolute_error: 1.8968 - val_loss
       12.6973 - val_mean_absolute_error: 2
     1730
7219 Epoch 3259/20000
7220 - 0s - loss: 6.9845 -
     mean_absolute_error: 1.9568 - val_loss
     12.6966 - val_mean_absolute_error: 2
     1729
7221 Epoch 3260/20000
```

```
- 0s - loss: 8.0803 -
7222
     mean_absolute_error: 2.0421 - val_loss
       12.6958 - val_mean_absolute_error: 2
     . 1728
7223
7224 Epoch 03260: saving model to ./model/
     model_best.h5
7225 Epoch 3261/20000
     - 0s - loss: 7.7358 -
7226
     mean_absolute_error: 2.0219 - val_loss
       12.6967 - val_mean_absolute_error: 2
      1729
7227 Epoch 3262/20000
     - 0s - loss: 7.9796 -
7228
     mean_absolute_error: 2.0604 - val_loss
       12.6970 - val_mean_absolute_error: 2
     1729
7229 Epoch 3263/20000
7230 - 0s - loss: 8.4757 -
     mean_absolute_error: 2.0131 - val_loss
       12.6969 - val_mean_absolute_error: 2
     1729
7231 Epoch 3264/20000
7232 - 0s - loss: 8.7942
```

```
7232 mean_absolute_error: 2.1056 - val_loss
       12.6961 - val_mean_absolute_error: 2
      1728
7233 Epoch 3265/20000
7234 - 0s - loss: 7.2277 -
     mean_absolute_error: 2.0078 - val_loss
       12.6968 - val_mean_absolute_error: 2
     . 1728
7235 Epoch 3266/20000
7236 - 0s - loss: 7.0999 -
     mean_absolute_error: 2.0312 - val_loss
       12.6958 - val_mean_absolute_error: 2
     1728
7237 Epoch 3267/20000
7238 - 0s - loss: 7.8852 -
     mean_absolute_error: 2.0915 - val_loss
       12.6961 - val_mean_absolute_error: 2
     1728
7239 Epoch 3268/20000
7240 - 0s - loss: 6.2863 -
     mean_absolute_error: 1.8494 - val_loss
       12.6963 - val_mean_absolute_error:
     1728
7241 Epoch 3269/20000
```

```
- 0s - loss: 7.6150 -
7242
     mean_absolute_error: 1.9764 - val_loss
       12.6961 - val_mean_absolute_error: 2
      1728
7243 Epoch 3270/20000
7244 - 0s - loss: 7.7053 -
     mean_absolute_error: 2.0409 - val_loss
       12.6957 - val_mean_absolute_error: 2
     . 1728
7245
7246 Epoch 03270: saving model to ./model/
     model_best.h5
7247 Epoch 3271/20000
     - Os - Loss: 8.3182 -
7248
     mean_absolute_error: 2.0088 - val_loss
       12.6964 - val_mean_absolute_error: 2
     1728
7249 Epoch 3272/20000
7250 - 0s - loss: 7.9035 -
     mean_absolute_error: 1.9886 - val_loss
       12.6967 - val_mean_absolute_error: 2
      1729
7251 Epoch 3273/20000
7252 - 0s - loss: 7.5782
```

```
7252 mean_absolute_error: 2.0212 - val_loss
       12.6958 - val_mean_absolute_error: 2
     1727
7253 Epoch 3274/20000
7254 - 0s - loss: 7.9803 -
     mean_absolute_error: 2.0171 - val_loss
       12.6961 - val_mean_absolute_error: 2
     . 1727
7255 Epoch 3275/20000
7256 - 0s - loss: 6.6121
     mean_absolute_error: 1.9449 - val_loss
       12.6962 - val_mean_absolute_error: 2
     1728
7257 Epoch 3276/20000
7258 - 0s - loss: 7.3037 -
     mean_absolute_error: 2.0243 - val_loss
       12.6961 - val_mean_absolute_error: 2
     1728
7259 Epoch 3277/20000
7260 - 0s - loss: 7.6045 -
     mean_absolute_error: 2.0214 - val_loss
       12.6964 - val_mean_absolute_error:
     1728
7261 Epoch 3278/20000
```

```
- 0s - loss: 8.5362 -
7262
     mean_absolute_error: 2.0720 - val_loss
       12.6959 - val_mean_absolute_error: 2
      1728
7263 Epoch 3279/20000
7264 - 0s - loss: 9.6434 -
     mean_absolute_error: 2.1758 - val_loss
       12.6960 - val_mean_absolute_error: 2
      1728
7265 Epoch 3280/20000
7266 - 0s - loss: 9.4597 -
     mean_absolute_error: 2.2141 - val_loss
       12.6960 - val_mean_absolute_error:
     . 1728
7267
    Epoch 03280: saving model to ./model/
     model_best.h5
7269 Epoch 3281/20000
7270 - 0s - loss: 7.6359
     mean_absolute_error: 2.0307 - val_loss
       12.6969 - val_mean_absolute_error: 2
      1728
7271 Epoch 3282/20000
     - 0s - loss: 6.7273
7272 l
```

```
7272 mean_absolute_error: 1.9031 - val_loss
       12.6969 - val_mean_absolute_error: 2
     1729
7273 Epoch 3283/20000
7274 - 0s - loss: 6.5656 -
     mean_absolute_error: 1.9092 - val_loss
       12.6970 - val_mean_absolute_error: 2
     1729
7275 Epoch 3284/20000
7276 - 0s - loss: 8.7812 -
     mean_absolute_error: 2.0655 - val_loss
       12.6964 - val_mean_absolute_error: 2
     1729
7277 Epoch 3285/20000
7278 - 0s - loss: 7.0280 -
     mean_absolute_error: 1.8947 - val_loss
       12.6967 - val_mean_absolute_error: 2
     1728
7279 Epoch 3286/20000
7280 - 0s - loss: 6.5181 -
     mean_absolute_error: 1.8698 - val_loss
     12.6965 - val_mean_absolute_error:
     1729
7281 Epoch 3287/20000
```

```
- 0s - loss: 8.1811 -
7282
     mean_absolute_error: 2.0021 - val_loss
       12.6962 - val_mean_absolute_error: 2
      1729
7283 Epoch 3288/20000
     - 0s - loss: 7.5981 -
7284
     mean_absolute_error: 1.9700 - val_loss
       12.6956 - val_mean_absolute_error: 2
      1728
7285 Epoch 3289/20000
7286 - 0s - loss: 7.2928 -
     mean_absolute_error: 1.9614 - val_loss
       12.6963 - val_mean_absolute_error: 2
      1729
7287 Epoch 3290/20000
     - 0s - loss: 7.9762 -
7288
     mean_absolute_error: 1.9807 - val_loss
       12.6960 - val_mean_absolute_error: 2
     1729
7289
     Epoch 03290: saving model to ./model/
7290
     model_best.h5
7291 Epoch 3291/20000
7292 - 0s - loss: 6.7163 -
```

```
7292 mean_absolute_error: 1.9500 - val_loss
       12.6952 - val_mean_absolute_error: 2
     1729
7293 Epoch 3292/20000
7294 - 0s - Loss: 7.2593 -
     mean_absolute_error: 1.9526 - val_loss
       12.6954 - val_mean_absolute_error: 2
     . 1729
7295 Epoch 3293/20000
7296 - 0s - loss: 7.4246 -
     mean_absolute_error: 1.8869 - val_loss
       12.6954 - val_mean_absolute_error: 2
     1729
7297 Epoch 3294/20000
7298 - 0s - loss: 7.0665 -
     mean_absolute_error: 1.9059 - val_loss
       12.6961 - val_mean_absolute_error: 2
     1730
7299 Epoch 3295/20000
7300 - 0s - loss: 8.4010 -
     mean_absolute_error: 2.0923 - val_loss
     12.6960 - val_mean_absolute_error:
     1730
7301 Epoch 3296/20000
```

```
- 0s - loss: 8.7237 -
7302
     mean_absolute_error: 2.1775 - val_loss
       12.6957 - val_mean_absolute_error: 2
      1729
7303 Epoch 3297/20000
     - 0s - loss: 9.2620 -
7304 l
     mean_absolute_error: 2.0300 - val_loss
       12.6958 - val_mean_absolute_error: 2
     1730
7305 Epoch 3298/20000
7306 - 0s - loss: 6.9164 -
     mean_absolute_error: 1.9399 - val_loss
       12.6946 - val_mean_absolute_error: 2
     1729
7307 Epoch 3299/20000
     - 0s - loss: 7.2477 -
7308
     mean_absolute_error: 1.9698 - val_loss
       12.6945 - val_mean_absolute_error: 2
      1728
7309 Epoch 3300/20000
     - 0s - loss: 8.3015 -
7310
     mean_absolute_error: 2.0553 - val_loss
     : 12.6942 - val_mean_absolute_error: 2
     1728
```

```
7311
    Epoch 03300: saving model to ./model/
7312
     model_best.h5
7313 Epoch 3301/20000
7314 - 0s - loss: 7.3654 -
     mean_absolute_error: 2.0142 - val_loss
       12.6934 - val_mean_absolute_error: 2
     1727
7315 Epoch 3302/20000
7316 - 0s - loss: 7.3947 -
     mean_absolute_error: 2.0753 - val_loss
       12.6931 - val_mean_absolute_error: 2
     1727
7317 Epoch 3303/20000
7318 - 0s - loss: 7.9888
     mean_absolute_error: 2.0407 - val_loss
       12.6929 - val_mean_absolute_error: 2
     1727
7319 Epoch 3304/20000
7320 - 0s - loss: 7.2350 -
     mean_absolute_error: 2.0203 - val_loss
       12.6925 - val_mean_absolute_error:
     1727
7321 Epoch 3305/20000
```

```
- 0s - loss: 6.7846 -
7322
     mean_absolute_error: 1.8983 - val_loss
       12.6923 - val_mean_absolute_error: 2
      1727
7323 Epoch 3306/20000
7324 - 0s - loss: 8.0765 -
     mean_absolute_error: 2.0552 - val_loss
       12.6923 - val_mean_absolute_error: 2
     1727
7325 Epoch 3307/20000
7326 - 0s - loss: 9.8838 -
     mean_absolute_error: 2.2235 - val_loss
       12.6926 - val_mean_absolute_error: 2
     1727
7327 Epoch 3308/20000
     - 0s - loss: 6.6679 -
7328
     mean_absolute_error: 1.9253 - val_loss
       12.6935 - val_mean_absolute_error: 2
      1727
7329 Epoch 3309/20000
     - 0s - loss: 6.6255 -
7330
     mean_absolute_error: 1.8762 - val_loss
     : 12.6937 - val_mean_absolute_error: 2
     1727
```

```
File - boston01
7331 Epoch 3310/20000
      - 0s - loss: 6.6203 -
7332
     mean_absolute_error: 1.8547 - val_loss
       12.6942 - val_mean_absolute_error: 2
      1728
7333
     Epoch 03310: saving model to ./model/
7334
     model_best.h5
7335 Epoch 3311/20000
7336 - 0s - loss: 6.9759 -
     mean_absolute_error: 1.9535 - val_loss
       12.6941 - val_mean_absolute_error: 2
      1728
7337 Epoch 3312/20000
7338 - 0s - loss: 7.3814 -
     mean_absolute_error: 2.0071 - val_loss
       12.6942 - val_mean_absolute_error: 2
      1727
7339 Epoch 3313/20000
7340 - 0s - loss: 5.4725 -
     mean_absolute_error: 1.7721 - val_loss
       12.6934 - val_mean_absolute_error:
      1727
7341 Epoch 3314/20000
```

```
- 0s - loss: 7.1855 -
7342
     mean_absolute_error: 2.0197 - val_loss
       12.6940 - val_mean_absolute_error: 2
      1727
7343 Epoch 3315/20000
     - 0s - loss: 9.4210 -
7344
     mean_absolute_error: 2.1469 - val_loss
       12.6938 - val_mean_absolute_error: 2
     1727
7345 Epoch 3316/20000
7346 - 0s - loss: 6.6557 -
     mean_absolute_error: 1.8788 - val_loss
       12.6940 - val_mean_absolute_error: 2
     1727
7347 Epoch 3317/20000
     - 0s - loss: 6.4566 -
7348
     mean_absolute_error: 1.8822 - val_loss
       12.6941 - val_mean_absolute_error: 2
      1726
7349 Epoch 3318/20000
     - 0s - loss: 8.2121 -
7350
     mean_absolute_error: 2.0623 - val_loss
     : 12.6947 - val_mean_absolute_error: 2
     1727
```

```
File - boston01
7351 Epoch 3319/20000
      - 0s - loss: 7.1044 -
7352
     mean_absolute_error: 1.9235 - val_loss
       12.6952 - val_mean_absolute_error: 2
      1727
7353 Epoch 3320/20000
7354 - 0s - loss: 7.7427 -
     mean_absolute_error: 1.9013 - val_loss
       12.6955 - val_mean_absolute_error: 2
      . 1727
7355
7356 Epoch 03320: saving model to ./model/
     model_best.h5
7357 Epoch 3321/20000
7358 - 0s - loss: 6.5290
     mean_absolute_error: 1.9732 - val_loss
       12.6947 - val_mean_absolute_error: 2
      1727
7359 Epoch 3322/20000
7360 - 0s - loss: 9.3957 -
     mean_absolute_error: 2.1601 - val_loss
       12.6957 - val_mean_absolute_error:
      1727
7361 Epoch 3323/20000
```

```
- 0s - loss: 5.4857 -
7362
     mean_absolute_error: 1.7978 - val_loss
       12.6966 - val_mean_absolute_error: 2
      1728
7363 Epoch 3324/20000
     - 0s - loss: 6.4955 -
7364 l
     mean_absolute_error: 1.9345 - val_loss
       12.6964 - val_mean_absolute_error: 2
     1728
7365 Epoch 3325/20000
7366 - 0s - loss: 7.6563 -
     mean_absolute_error: 1.8966 - val_loss
       12.6962 - val_mean_absolute_error: 2
     1728
7367 Epoch 3326/20000
7368
     - 0s - loss: 6.6985 -
     mean_absolute_error: 1.9196 - val_loss
       12.6967 - val_mean_absolute_error: 2
      1729
7369 Epoch 3327/20000
     - 0s - loss: 7.5776 -
7370
     mean_absolute_error: 1.9765 - val_loss
     : 12.6959 - val_mean_absolute_error: 2
     1728
```

```
File - boston01
7371 Epoch 3328/20000
      - 0s - loss: 9.1789 -
7372
     mean_absolute_error: 2.1399 - val_loss
       12.6958 - val_mean_absolute_error: 2
      1728
7373 Epoch 3329/20000
      - 0s - loss: 6.9774 -
7374
     mean_absolute_error: 1.9902 - val_loss
       12.6962 - val_mean_absolute_error: 2
      . 1728
7375 Epoch 3330/20000
7376 - 0s - loss: 7.8458 -
     mean_absolute_error: 1.9713 - val_loss
       12.6961 - val_mean_absolute_error: 2
      . 1728
7377
7378 Epoch 03330: saving model to ./model/
     model_best.h5
7379 Epoch 3331/20000
7380 - 0s - loss: 7.5785 -
     mean_absolute_error: 1.8979 - val_loss
       12.6959 - val_mean_absolute_error:
      1727
7381 Epoch 3332/20000
```

```
- 0s - loss: 8.8357 -
7382
     mean_absolute_error: 2.0476 - val_loss
       12.6967 - val_mean_absolute_error: 2
      1728
7383 Epoch 3333/20000
     - 0s - loss: 7.7896 -
7384
     mean_absolute_error: 2.0438 - val_loss
       12.6953 - val_mean_absolute_error: 2
      1727
7385 Epoch 3334/20000
7386 - 0s - loss: 8.1675 -
     mean_absolute_error: 2.1201 - val_loss
       12.6951 - val_mean_absolute_error: 2
     1726
7387 Epoch 3335/20000
     - 0s - loss: 6.9988 -
7388
     mean_absolute_error: 1.8957 - val_loss
       12.6953 - val_mean_absolute_error: 2
      1727
7389 Epoch 3336/20000
     - 0s - loss: 8.8666 -
7390
     mean_absolute_error: 2.0997 - val_loss
     : 12.6949 - val_mean_absolute_error: 2
     1727
```

```
File - boston01
7391 Epoch 3337/20000
      - 0s - loss: 8.0879 -
7392
     mean_absolute_error: 1.9805 - val_loss
       12.6953 - val_mean_absolute_error: 2
      1727
7393 Epoch 3338/20000
      - 0s - loss: 8.3699 -
7394
     mean_absolute_error: 2.1076 - val_loss
       12.6947 - val_mean_absolute_error: 2
      . 1726
7395 Epoch 3339/20000
7396 - 0s - loss: 7.1074 -
     mean_absolute_error: 1.9151 - val_loss
       12.6947 - val_mean_absolute_error: 2
      1726
7397 Epoch 3340/20000
      - 0s - loss: 7.1135 -
7398
     mean_absolute_error: 1.9979 - val_loss
       12.6953 - val_mean_absolute_error: 2
      1727
7399
7400 Epoch 03340: saving model to ./model/
     model_best.h5
7401 Epoch 3341/20000
```

```
- 0s - loss: 6.9306 -
7402
     mean_absolute_error: 1.9311 - val_loss
       12.6957 - val_mean_absolute_error: 2
      1728
7403 Epoch 3342/20000
7404 - 0s - loss: 8.2946 -
     mean_absolute_error: 2.0137 - val_loss
       12.6960 - val_mean_absolute_error: 2
     1728
7405 Epoch 3343/20000
7406 - 0s - loss: 7.5543 -
     mean_absolute_error: 2.0021 - val_loss
       12.6965 - val_mean_absolute_error: 2
     1728
7407 Epoch 3344/20000
     - 0s - Loss: 6.4046 -
7408
     mean_absolute_error: 1.9010 - val_loss
       12.6959 - val_mean_absolute_error: 2
      1728
7409 Epoch 3345/20000
7410 - 0s - loss: 9.1999 -
     mean_absolute_error: 2.1729 - val_loss
     : 12.6961 - val_mean_absolute_error: 2
     1728
```

7419 Epoch 3350/20000

7420 - 0s - loss: 7.1028 - mean_absolute_error: 1.9235 - val_loss : 12.6975 - val_mean_absolute_error: 2

```
File - boston01
7420 . 1730
7421
7422 Epoch 03350: saving model to ./model/
     model_best.h5
7423 Epoch 3351/20000
7424 - 0s - loss: 8.5191 -
     mean_absolute_error: 2.1224 - val_loss
       12.6975 - val_mean_absolute_error: 2
      1729
7425 Epoch 3352/20000
7426 - 0s - loss: 6.6719 -
     mean_absolute_error: 1.9289 - val_loss
       12.6979 - val_mean_absolute_error: 2
      1729
7427 Epoch 3353/20000
      - 0s - loss: 7.1926 -
7428
     mean_absolute_error: 1.9751 - val_loss
       12.6979 - val_mean_absolute_error: 2
      1729
7429 Epoch 3354/20000
      - 0s - loss: 6.9598 -
7430 l
     mean_absolute_error: 1.9573 - val_loss
     : 12.6972 - val_mean_absolute_error: 2
      1729
```

12.6965 - val_mean_absolute_error: 2

```
File - boston01
7440 . 1728
7441 Epoch 3360/20000
      - 0s - loss: 8.0080 -
7442
     mean_absolute_error: 1.9604 - val_loss
       12.6968 - val_mean_absolute_error: 2
      1728
7443
7444 Epoch 03360: saving model to ./model/
     model_best.h5
7445 Epoch 3361/20000
7446 - 0s - loss: 8.7108 -
     mean_absolute_error: 2.0575 - val_loss
       12.6965 - val_mean_absolute_error: 2
      1727
7447 Epoch 3362/20000
      - 0s - Loss: 8.2526 -
7448
     mean_absolute_error: 1.9783 - val_loss
       12.6969 - val_mean_absolute_error: 2
      1728
7449 Epoch 3363/20000
      - 0s - loss: 8.3277 -
7450 l
     mean_absolute_error: 1.9974 - val_loss
      12.6971 - val_mean_absolute_error: 2
      1728
```

7460 - 0s - loss: 9.4061 -

mean_absolute_error: 2.0773 - val_loss : 12.6979 - val_mean_absolute_error: 2

```
File - boston01
7460 . 1729
7461 Epoch 3369/20000
      - 0s - loss: 6.4858
7462
     mean_absolute_error: 1.8884 - val_loss
       12.6980 - val_mean_absolute_error: 2
      1729
7463 Epoch 3370/20000
7464 - 0s - loss: 8.3678 -
     mean_absolute_error: 2.0463 - val_loss
       12.6981 - val_mean_absolute_error:
      1729
7465
7466 Epoch 03370: saving model to ./model/
     model best.h5
7467 Epoch 3371/20000
      - 0s - loss: 8.7256 -
7468
     mean_absolute_error: 2.1507 - val loss
       12.6971 - val_mean_absolute_error: 2
      1729
7469 Epoch 3372/20000
7470 - 0s - loss: 7.8292 -
     mean_absolute_error: 2.0180 - val_loss
      12.6980 - val_mean_absolute_error: 2
      1729
```

7480 - 0s - loss: 8.1725 - mean_absolute_error: 2.0407 - val_loss : 12.6977 - val_mean_absolute_error: 2

```
File - boston01
7480 . 1730
7481 Epoch 3378/20000
      - 0s - loss: 8.2681
7482
     mean_absolute_error: 2.0755 - val_loss
       12.6975 - val_mean_absolute_error: 2
      1730
7483 Epoch 3379/20000
7484 - 0s - loss: 8.1786 -
     mean_absolute_error: 2.0321 - val_loss
       12.6970 - val_mean_absolute_error:
      1729
7485 Epoch 3380/20000
7486 - 0s - loss: 6.6210 -
     mean_absolute_error: 1.8599 - val_loss
       12.6969 - val_mean_absolute_error:
      . 1729
7487
7488 Epoch 03380: saving model to ./model/
     model_best.h5
7489 Epoch 3381/20000
      - 0s - loss: 8.6251 -
7490
     mean_absolute_error: 1.9461 - val_loss
      12.6978 - val_mean_absolute_error: 2
      1730
```

7500 - 0s - loss: 7.2460 - mean_absolute_error: 1.9484 - val_loss : 12.6986 - val_mean_absolute_error: 2

```
File - boston01
7500 . 1730
7501 Epoch 3387/20000
7502 - 0s - loss: 7.9679
     mean_absolute_error: 2.0010 - val_loss
       12.6996 - val_mean_absolute_error: 2
      1731
7503 Epoch 3388/20000
7504 - 0s - Loss: 6.6648 -
     mean_absolute_error: 1.8758 - val_loss
       12.6994 - val_mean_absolute_error:
      1730
7505 Epoch 3389/20000
7506 - 0s - loss: 7.4376 -
     mean_absolute_error: 1.9875 - val_loss
       12.6997 - val_mean_absolute_error:
      1730
7507 Epoch 3390/20000
      - 0s - loss: 8.6471 -
7508
     mean_absolute_error: 2.0917 - val_loss
       12.7009 - val_mean_absolute_error:
      1731
7509
     Epoch 03390: saving model to ./model/
7510
     model_best.h5
```

7519 Epoch 3395/20000

7520 - 0s - loss: 7.6881 - mean_absolute_error: 2.0777 - val_loss : 12.7007 - val_mean_absolute_error: 2

```
File - boston01
7520 . 1731
7521 Epoch 3396/20000
7522 - 0s - loss: 7.6253
     mean_absolute_error: 2.0274 - val_loss
       12.6999 - val_mean_absolute_error: 2
      1730
7523 Epoch 3397/20000
7524 - 0s - loss: 7.3960 -
     mean_absolute_error: 1.9480 - val_loss
       12.7003 - val_mean_absolute_error:
      1730
7525 Epoch 3398/20000
7526 - 0s - loss: 6.4104 -
     mean_absolute_error: 1.8476 - val_loss
       12.6996 - val_mean_absolute_error: 2
      1730
7527 Epoch 3399/20000
      - 0s - loss: 7.0023 -
7528
     mean_absolute_error: 1.9855 - val_loss
       12.6994 - val_mean_absolute_error:
      1729
7529 Epoch 3400/20000
7530 - 0s - loss: 7.0941 -
     mean_absolute_error: 2.0160 - val_loss
```

```
12.6994 - val_mean_absolute_error: 2
7530
     1730
7531
7532 Epoch 03400: saving model to ./model/
     model_best.h5
7533 Epoch 3401/20000
     - 0s - loss: 8.8327
7534
     mean_absolute_error: 2.1252 - val_loss
       12.6996 - val_mean_absolute_error: 2
     . 1730
7535 Epoch 3402/20000
7536 - 0s - loss: 6.3944 -
     mean_absolute_error: 1.8265 - val_loss
       12.6995 - val_mean_absolute_error: 2
     1730
7537 Epoch 3403/20000
     - 0s - loss: 8.2595 -
7538
     mean_absolute_error: 2.1746 - val_loss
       12.6999 - val_mean_absolute_error: 2
     1731
7539 Epoch 3404/20000
7540 - 0s - Loss: 7.1960
     mean_absolute_error: 1.9726 - val_loss
      12.7001 - val_mean_absolute_error: 2
```

```
File - boston01
7540 . 1731
7541 Epoch 3405/20000
7542 - 0s - loss: 8.0550 -
     mean_absolute_error: 2.0782 - val_loss
       12.7006 - val_mean_absolute_error: 2
      1731
7543 Epoch 3406/20000
7544 - 0s - loss: 7.8546 -
     mean_absolute_error: 1.9771 - val_loss
       12.7011 - val_mean_absolute_error:
      1732
7545 Epoch 3407/20000
7546 - 0s - loss: 7.9100 -
     mean_absolute_error: 2.0075 - val_loss
       12.7022 - val_mean_absolute_error: 2
      1732
7547 Epoch 3408/20000
7548 - 0s - loss: 8.6113 -
     mean_absolute_error: 2.0746 - val_loss
       12.7011 - val_mean_absolute_error:
      1732
7549 Epoch 3409/20000
7550 - 0s - loss: 8.2256 -
     mean_absolute_error: 2.0991 - val_l<u>oss</u>
```

```
12.7011 - val_mean_absolute_error: 2
7550
     1732
7551 Epoch 3410/20000
     - 0s - loss: 7.2117 -
7552
     mean_absolute_error: 1.9239 - val_loss
      12.7023 - val_mean_absolute_error: 2
     . 1733
7553
    Epoch 03410: saving model to ./model/
7554
     model_best.h5
7555 Epoch 3411/20000
7556 - 0s - loss: 7.4178 -
     mean_absolute_error: 1.9575 - val_loss
       12.7028 - val_mean_absolute_error: 2
     1734
7557 Epoch 3412/20000
     - 0s - loss: 7.7697 -
7558
     mean_absolute_error: 1.9659 - val_loss
       12.7031 - val_mean_absolute_error: 2
     1734
7559 Epoch 3413/20000
7560 - 0s - loss: 7.9696
     mean_absolute_error: 1.9720 - val_loss
      12.7032 - val_mean_absolute_error: 2
```

```
File - boston01
7560 . 1734
7561 Epoch 3414/20000
      - 0s - loss: 9.7524
7562
     mean_absolute_error: 2.1516 - val_loss
       12.7024 - val_mean_absolute_error: 2
      1733
7563 Epoch 3415/20000
7564 - 0s - Loss: 6.7827
     mean_absolute_error: 1.8867 - val_loss
       12.7017 - val_mean_absolute_error:
      1733
7565 Epoch 3416/20000
7566 - 0s - loss: 7.0299 -
     mean_absolute_error: 1.8369 - val_loss
       12.7011 - val_mean_absolute_error: 2
      1732
7567 Epoch 3417/20000
      - 0s - loss: 8.8970 -
7568
     mean_absolute_error: 2.1404 - val_loss
       12.7018 - val_mean_absolute_error:
      1733
7569 Epoch 3418/20000
7570 - 0s - loss: 7.2007 -
     mean_absolute_error: 1.9654 - val_loss
```

```
12.7025 - val_mean_absolute_error: 2
7570
     1733
7571 Epoch 3419/20000
     - 0s - loss: 7.8237 -
7572 l
     mean_absolute_error: 2.0702 - val_loss
       12.7010 - val_mean_absolute_error: 2
      1732
7573 Epoch 3420/20000
     - 0s - loss: 6.8461 -
7574
     mean_absolute_error: 1.8867 - val_loss
       12.7010 - val_mean_absolute_error: 2
     1732
7575
    Epoch 03420: saving model to ./model/
7576
     model_best.h5
7577 Epoch 3421/20000
7578 - 0s - loss: 7.6808 -
     mean_absolute_error: 2.0312 - val_loss
       12.7005 - val_mean_absolute_error: 2
     1732
7579 Epoch 3422/20000
7580 - 0s - Loss: 8.6601
     mean_absolute_error: 2.0101 - val_loss
      12.7002 - val_mean_absolute_error: 2
```

```
File - boston01
7580 . 1731
7581 Epoch 3423/20000
      - 0s - loss: 9.5007
7582
     mean_absolute_error: 2.1552 - val_loss
       12.7004 - val_mean_absolute_error: 2
      1732
7583 Epoch 3424/20000
7584 - 0s - loss: 7.8075 ·
     mean_absolute_error: 1.9752 - val_loss
       12.7007 - val_mean_absolute_error:
      1732
7585 Epoch 3425/20000
7586 - 0s - loss: 7.0855 -
     mean_absolute_error: 2.0101 - val_loss
       12.7007 - val_mean_absolute_error:
      1732
7587 Epoch 3426/20000
      - 0s - loss: 7.9450 -
7588
     mean_absolute_error: 2.1203 - val_loss
       12.7000 - val_mean_absolute_error:
      1731
7589 Epoch 3427/20000
7590 - 0s - loss: 8.7748 -
     mean_absolute_error: 2.1556 - val_loss
```

```
12.7007 - val_mean_absolute_error: 2
7590
     1731
7591 Epoch 3428/20000
     - 0s - loss: 7.6909 -
7592
     mean_absolute_error: 1.9499 - val_loss
       12.7017 - val_mean_absolute_error: 2
      1732
7593 Epoch 3429/20000
     - 0s - loss: 8.5017 -
7594
     mean_absolute_error: 2.0669 - val_loss
       12.7014 - val_mean_absolute_error: 2
     1731
7595 Epoch 3430/20000
     - 0s - loss: 7.9624 -
7596
     mean_absolute_error: 1.9964 - val_loss
       12.7010 - val_mean_absolute_error: 2
     . 1731
7597
7598 Epoch 03430: saving model to ./model/
     model_best.h5
7599 Epoch 3431/20000
7600 - 0s - loss: 8.3724
     mean_absolute_error: 2.1278 - val_loss
      12.7014 - val_mean_absolute_error: 2
```

```
File - boston01
7600 . 1731
7601 Epoch 3432/20000
7602 - 0s - loss: 9.8655
     mean_absolute_error: 2.2039 - val_loss
       12.7020 - val_mean_absolute_error: 2
      1732
7603 Epoch 3433/20000
7604 - 0s - loss: 7.0498
     mean_absolute_error: 1.8976 - val_loss
       12.7014 - val_mean_absolute_error:
      1731
7605 Epoch 3434/20000
7606 - 0s - loss: 6.4454 -
     mean_absolute_error: 1.9121 - val_loss
       12.7012 - val_mean_absolute_error: 2
      1731
7607 Epoch 3435/20000
     - 0s - loss: 7.8379 -
7608
     mean_absolute_error: 1.9216 - val_loss
       12.7020 - val_mean_absolute_error:
      1731
7609 Epoch 3436/20000
7610 - 0s - loss: 7.1310 -
     mean_absolute_error: 1.9773 - val_l<u>oss</u>
```

```
12.7029 - val_mean_absolute_error: 2
7610
     1732
7611 Epoch 3437/20000
7612 - 0s - loss: 7.3954 -
     mean_absolute_error: 1.9685 - val_loss
       12.7026 - val_mean_absolute_error: 2
      1732
7613 Epoch 3438/20000
7614 - 0s - loss: 8.4138 -
     mean_absolute_error: 2.0014 - val_loss
       12.7025 - val_mean_absolute_error: 2
      1732
7615 Epoch 3439/20000
     - 0s - loss: 6.9852 -
7616
     mean_absolute_error: 1.9161 - val_loss
       12.7023 - val_mean_absolute_error: 2
     1731
7617 Epoch 3440/20000
     - 0s - loss: 7.4399 -
7618
     mean_absolute_error: 2.0327 - val_loss
       12.7014 - val_mean_absolute_error: 2
     . 1730
7619
7620 Epoch 03440: saving model to ./model/
```

```
File - boston01
7620 model_best.h5
7621 Epoch 3441/20000
7622 - 0s - loss: 7.8911
     mean_absolute_error: 1.9389 - val_loss
       12.7017 - val_mean_absolute_error: 2
      1731
7623 Epoch 3442/20000
7624 - 0s - loss: 7.8665 -
     mean_absolute_error: 1.9431 - val_loss
       12.7018 - val_mean_absolute_error:
      1731
7625 Epoch 3443/20000
7626 - 0s - loss: 8.5252 -
     mean_absolute_error: 2.0973 - val_loss
       12.7027 - val_mean_absolute_error: 2
      1731
7627 Epoch 3444/20000
7628 - 0s - loss: 7.9496 -
     mean_absolute_error: 2.0520 - val_loss
       12.7019 - val_mean_absolute_error:
      1731
7629 Epoch 3445/20000
7630 - 0s - loss: 8.3750 -
     mean_absolute_error: 2.0441 - val_loss
```

```
12.7008 - val_mean_absolute_error: 2
7630
     1729
7631 Epoch 3446/20000
     - 0s - loss: 7.2158 -
7632
     mean_absolute_error: 1.9470 - val_loss
       12.7013 - val_mean_absolute_error: 2
     1730
7633 Epoch 3447/20000
7634
     - 0s - loss: 7.0991 -
     mean_absolute_error: 1.9063 - val_loss
       12.7019 - val_mean_absolute_error: 2
     1730
7635 Epoch 3448/20000
     - 0s - loss: 7.6533 -
7636
     mean_absolute_error: 2.0294 - val_loss
       12.7007 - val_mean_absolute_error: 2
     1729
7637 Epoch 3449/20000
7638
     - 0s - loss: 6.7598
     mean_absolute_error: 1.9093 - val_loss
       12.7009 - val_mean_absolute_error: 2
     1730
7639 Epoch 3450/20000
7640 - 0s - loss: 7.8264
```

```
7640 mean_absolute_error: 2.0442 - val_loss
       12.7011 - val_mean_absolute_error: 2
     1730
7641
7642 Epoch 03450: saving model to ./model/
     model_best.h5
7643 Epoch 3451/20000
7644 - 0s - loss: 6.8946 -
     mean_absolute_error: 1.9163 - val_loss
       12.7001 - val_mean_absolute_error: 2
     1730
7645 Epoch 3452/20000
7646 - 0s - loss: 6.9702 -
     mean_absolute_error: 1.9178 - val_loss
       12.6999 - val_mean_absolute_error: 2
     1730
7647 Epoch 3453/20000
7648 - 0s - loss: 10.4554 -
     mean_absolute_error: 2.2455 - val_loss
       12.6994 - val_mean_absolute_error:
      1729
7649 Epoch 3454/20000
7650 - 0s - loss: 7.3518 -
     mean_absolute_error: 2.0204 - val_l<u>oss</u>
```

```
12.6984 - val_mean_absolute_error: 2
7650
     1729
7651 Epoch 3455/20000
     - 0s - loss: 7.1359 -
7652
     mean_absolute_error: 1.9216 - val_loss
       12.6988 - val_mean_absolute_error: 2
      1729
7653 Epoch 3456/20000
7654
     - 0s - loss: 7.8324 -
     mean_absolute_error: 2.0197 - val_l<u>oss</u>
       12.6985 - val_mean_absolute_error: 2
      1728
7655 Epoch 3457/20000
     - 0s - loss: 7.5436 -
7656
     mean_absolute_error: 1.9950 - val_loss
       12.6988 - val_mean_absolute_error: 2
     1728
7657 Epoch 3458/20000
     - 0s - loss: 7.6110 -
7658
     mean_absolute_error: 1.9654 - val_loss
       12.6989 - val_mean_absolute_error: 2
      1728
7659 Epoch 3459/20000
7660 - 0s - loss: 6.8150 -
```

```
7660 mean_absolute_error: 1.8667 - val_loss
       12.6985 - val_mean_absolute_error: 2
      1728
7661 Epoch 3460/20000
     - 0s - loss: 7.1721
7662
     mean_absolute_error: 1.9795 - val_loss
       12.6988 - val_mean_absolute_error: 2
     1729
7663
7664 Epoch 03460: saving model to ./model/
     model_best.h5
7665 Epoch 3461/20000
7666 - 0s - loss: 7.5922 -
     mean_absolute_error: 1.9865 - val_loss
       12.6986 - val_mean_absolute_error: 2
      1729
7667 Epoch 3462/20000
     - 0s - loss: 8.4222 -
7668
     mean_absolute_error: 2.1679 - val_loss
       12.6982 - val_mean_absolute_error:
     1728
7669 Epoch 3463/20000
7670 - 0s - loss: 8.1102 -
     mean_absolute_error: 1.9959 - val_loss
```

```
12.6985 - val_mean_absolute_error:
7670
     1729
7671 Epoch 3464/20000
     - 0s - loss: 7.1244 -
7672
     mean_absolute_error: 1.9847 - val_loss
       12.6982 - val_mean_absolute_error:
      1728
7673 Epoch 3465/20000
7674
     - 0s - loss: 7.1218 -
     mean_absolute_error: 1.9758 - val_loss
       12.6987 - val_mean_absolute_error: 2
      1728
7675 Epoch 03465: early stopping
7676 history.history.keys = ['
     val_mean_absolute_error', 'loss', 'lr
     , 'mean_absolute_error', 'val_loss'
7677 history.history = {'
     val_mean_absolute_error': [18.
     305139211960782, 11.964303099078897,
     . 837846237936137, 4. 981570090776608,
     . 529397069672008, 4. 119968743971836,
     . 8563679118215304, 3. 7559322781032987
       3.5951398449179566, 3.
     818140948260272, 3.349921544392904, 3.
```

```
7677 291190371101285, 3.282594304025909,
     2306882128303434, 3.17491399505992, 3.
     529698313018422, 3.005899123203607, 3.
     8448000778386624, 3.0535737025884933,
     3.0558200883276667, 3.101175190489969
       2.9022269072356046, 2.
     953529758217894, 2.9902677653748313, 2
     . 871104581856433, 2. 8695157839928145,
     2. 9656463905617043,   3. 0972829748083046
     , 2.8722445876510054, 3.
     3037663212528936,2.91724560584551,2.
     9354395689787687, 2.7984550852834444,
     2. 7855588889416354, 2. 869578891330295
       2.9230097076039256, 2.
     8438631928997276, 2.7863924473892023,
     2. 772401691954813, 2. 810869428846571,
     2. 8845348358154297, 3. 004678726196289
       2.8161803586983387, 2.
     841379118554386, 2.857610302206911, 2.
     8648853537477095, 2.737507478690442, 2
     . 7584994516254944, 2. 8314793669147256
     , 2.7499515627637323, 2.
     8856356820942444, 2.7692754298080633,
     2. 752526954368309, 2. 8584411291428555
```

```
7677
```

```
, 2.8667043285605347, 2.
8114947566279658, 2.869807043193299, 2
 . 844159868028429, 2. 8432190271071445,
2. 8939217932430314,   2. 826775774543668
  2.7772421895721813, 2.
843311239171911, 2.8459237652060425,
. 8994623819986978, 2. 8419548788188416
  2.826027458096728, 2.
8563640971242648, 2.816186080744237,
. 9249455016336325, 2. 8761804368760853
 2. 911099210197543, 2. 915648048306689
  2.895090056054386, 2.
8323608445532527, 2.85187057212547, 2.
804038648252134, 2.8318531836992427, 2
. 8260345694459517, 2. 7121990816092785
  2.7636856032006536, 2.
713448253678687, 2.819677941593123, 2.
7513124677870007, 2.8661375398989075,
2. 934630170280551, 2. 888435976004895,
3. 014658044885706, 2. 7545588693501037
 , 2.8062184887167847, 2.
7557251777177973, 2.763374893753617,
. 8074427239688826, 2. 7447167149296514
 2.737488899701907, 2.
```

```
7677 9047938217351468, 2.7070159205683955,
     2. 7323331244197893, 2. 8472618291407454
       2.8116780269293136, 2.
     8273758358425565, 2.6854732419237677,
     2. 7566515604654946, 2. 7319148499288675
      2.7120800724735967, 2.
     7049313062503013, 2.8244418155999833,
     2.734638025731216, 2.817124873031805,
     2.810148545253424, 2.766884768450702,
     2.7307685098530334, 2.
     6834207699622636, 2.69338548919301, 2.
     6777340924298323, 2.968645190015251, 2
     . 785084312344775, 2. 695063673419717, 2
     . 710161939079379, 2. 705584373003171, 2
     . 7113793926474488,   2. 713328585212613,  
     2. 696356785150222, 2. 7837081956274714
     , 2.660986747270749, 2.
     7069695084183305, 2.7726352832935475,
     2. 733631063390661, 2. 6706585825225453
     , 2.7438184950086804, 2.
     7142757839626737, 2.8905058731267483,
     2.840513347107687, 2.831443315670814,
     2. 7412484015947505, 2. 7473409911732616
```

```
7677 , 2.903548181792836, 2.
     6576672542242354, 2.6833613831319925,
     2. 774754465362172, 2. 768037254427686,
     2. 708343811977057, 2. 8946271119294344
     2.6888500496193215, 2.
     7936955675666715, 2.5935179157021606,
     2. 651881017802674, 2. 6651489822952836
     , 2.7367856767442493, 2.
     7867895055700234, 2.672326500033155,
     . 674278400562428, 2. 752598444620768, 2
     , 2.64059<u>208057</u>54484<u>,</u> 2.
     7108647146342713, 2.810307632257909,
     . 682679329389407, 2. 850446018171899, 2
     . 738069298826618, 2. 6594903498520086,
     2.7308791125262224, 2.699364980061849
     , 2.661569901454596, 2.568389327437789
       2.5778942579104576, 2.
     6461243099636502, 2.764197196489499,
     . 67552783165449, 2. 780348765997239, 2.
     855889308599778, 2.7141344282362194, 3
     . 0028668862802013, 2. 648284346969039,
     2.6367384828167197, 2.634402640071916
```

2.7042967478434243, 2.

```
7677 7045011167173034, 2.7347281185197243,
     2.64296661188573, 2.6061456232895086,
     2.6704146302776572, 2.647730532987618
       2.6871424780951605, 2.
     668779797024197, 2.787888703522859, 2.
     614812215169271, 2.79048870227955, 2.
     7781417517014493, 2.670331648838373, 2
     . 655201382107205, 2. 630573366895134,
     . 770739213919934,   2. 712337988394278,  
     . 749270874776958, 2. 745589621273088, 2
     . 623212037263093, 2. 630215374040015, 2
     . 68957171028043, 2. 6052297898280767, 2
     . 6302884419759116,2. 7008679001419633
     2.75158425319342, 2.6944603154688704
     , 2.781376638530213, 2.661797723652404
       2.6525593274905357, 2.
     7476669594093606, 2.7157347172866633,
     2.821115870534638, 2.79875432709117, 2
     . 6366039087742936, 2. 639977678840543,
     2.6717407085277416, 2.5888423213252314
       2.648736341499988, 2.
     5558301666636525, 2.6611433146912375,
     2. 628426940352828, 2. 7058014575346014
     , 2.6380369162853854, 2.
```

```
7677 651404321929555, 2.59611110922731, 2.
     6399581108564214, 2.6844729670771845,
     2. 68293814011562, 2. 6920428805881076,
     2. 6792864151942877, 2. 6393455222800926
       2.8368749736267844, 2.
     641943425308039, 2.7514880380512756, 2
     . 733724240903501, 2. 6590729701666183,
     2.687799854043089, 2.8273295178825473
       2.815613970344449, 2.
     6004161599241655, 2.654232189979082,
     . 700752187658239, 2. 6790027147457924,
     2.622547644155997, 2.6222429628725403
       2.6918096895571106, 2.
     7037266860773532, 2.78624212005992, 2.
     678292003678687, 2.6458552325213396, 2
     . 5827369454466265, 2. 7017955073603876
      2.63212<u>0203088831,</u> 2.
     6811754909562477, 2.580521077285578, 2
     . 7072616859718606, 2. 6828538635630665
       2. 786253893816913, 2. 65260088885272
       2.6832330962758006, 2.
     6141610793125483, 2.5904469666657626,
     2. 5537921293282215, 2. 6730806798110773
     , 2.601384386604215, 2.729408499635296
```

```
7677 , 2.581759959091375, 2.
     6383663460060403, 2.633149794590326,
     . 799852347668306, 2. 855091401088385, 2
     . 675991340919777, 2. 812345693140854, 2
     . 646711161107<u>1927</u>, 2. 794<u>75871427559</u>54
       2.6162504973234952, 2.
     8302914654767073, 2.8549764185775945,
     2. 6830562779932845, 2. 7133363087972007
     , 2.741922001779815, 2.7861137390<u>13672</u>
      2.6312185687783325, 2.
     6541173958484037, 2.6977884975480446,
     2.8383060737892434, 2.627407238807207
     , 2.664086965867031, 2.817719918710214
       2.720829834172755, 2.
     6890993942449124, 2.618758307562934,
     . 629810333251953, 2. 782797048121323, 2
     . 6513699896541643, 2. 6235715371591075
       2.830458935396171, 2.
     7262690037856867, 2.629368676079644, 2
     . 7343531479070218, 2. 5991719563802085
       2. 792991661731108, 2.
     5832365765983676, 2.5331125141661843,
```

2. 5993463728162975, 2. 6399253091694397

, 2.6195337271984713, 2.

```
7677 5902167897165556, 2.664185559308087, 2
     . 6560684722146872, 2. 573136105949496,
     2. 6870575186647017, 2. 5766162401364174
       2.5886448283254366, 2.
     640355663535036, 2.597873169698833, 2.
     6144915686713324, 2.6180875801745755,
     2. 6198944751127264, 2. 607208510975779
       2.552500077235846, 2.
     6073016884886187, 2.592074453094859, 2
     . 877065164071542, 2. 6821075251073014,
     2. 5711178720733265, 2. 578136444091797
       2.547975445971077, 2.
     5741636723647883, 2.5983865996937694,
     2.609763887193468, 2.7524359903217834
       2. 6246179651331016, 2.
     559351603190104, 2.6454105141722124, 2
     . 7929245748637634,   2. 685294822410301,
     2.7342940436469183, 2.77689990290<u>88905</u>
       2.732532595410759, 2.
     6233736438515747, 2.604811868549865,
     . 7145394690242814, 2. 7994827223412786
       2.669075600894881, 2.
     6916064745114174, 2.733459402013708, 2
     . 638493220011393, 2. 6439634252477577,
```

```
7677 2.6169955642135054, 2.638338348011912
       2.653761781292197, 2.641850271342713
       2.6863584400695046, 2.
     6389151679144964, 2.6496254014380183,
     2. 6539589210792824, 2. 644589082694348
       2.6401035873978227, 2.
     7352314937261886, 2.5993406272228854,
     2.627328684300552, 2.62658667858736, 2
     . 7691803920416183, 2. 6424502619990595
     , 2.615483601888021, 2.
     6579451148892628, 2.6133055510344327,
     2. 7664655520592207, 2. 7152473072946806
       2.9089878223560475, 2.
     6336184372136624, 2.652586265846535, 2
     . 672993506914304, 2. 6531134004946106,
     2.6766780335226175, 2.722042695975598
     , 2.68163596<u>2592231, 2.663</u>69480<u>5569</u>119
       2.662516064114041, <u>2.</u>
     6050246674337503, 2.6726756390230157,
     2. 6401005262210044, 2. 833674136503243
     , 2.6413705142927757, 2.
     596150857430917, 2.6552715536988813,
     . 592252990345896, 2. 584388709362642, 2
      577032677921248, 2.611156722645701, 2
```

```
File - boston01
7677 . 6773640667950667, 2. 6382844006573714
       2.7261830789071544, 2.
     6135711905397017, 2.5945439044340155,
     2.646794542854215, 2.6621608498655718
       2.7859759860568576, 2.
     6573874862105757, 2.663749011946313,
      . 695141027003159, 2. 652945812837577, 2
      . 6192584096649547, 2. 5730717976888022
       2.729613881052276, 2.667006480840989
       2.623404962045175, 2.711797054903007
       2.6198334870515048, 2.
     <u>6618856971646534,   2.6736921145592207,</u>
     2.656904126390999, 2.6207056398744935
       2.621704360585154, 2.649701789573387
       2.6462298499213324, 2.
     602304529260706, 2.6018844416112077, 2
      . 595203964798539, 2. 6459937860936296,
```

2. 589781231350369, 2. 6182951515103565 2.642364525500639, 2. 6839412171163675, 2. 6031314237618153, 2. 6272576649983725, 2. 617685671205874 2.7752146073329595, 2.

599835902084539, 2.6551452212863498, 2 . 6607658715895663, 2. 612095868145978,

```
7677 2. 585125157862534, 2. 596590984014817,
     2. 625073821456344, 2. 6065328150619695
       2.643954571382499, 2.603366404403875
       2.6980634618688515, 2.
     6091381591043357, 2.6126801997055242,
     2. 5964219599594305, 2. 5903861434371382
     , 2.6149181554346907, 2.
     703753365410699, 2.6022329919132186,
     . 7318074261700667, 2. 6470056227695795
     , 2.6849120340229553, 2.
     7056371900770397, 2.650772801151982, 2
     . 568728623566804, 2. 6513229417212214,
     2.6402046062328197, 2.6075949256802784
       2.6225123228850187, 2.
     580084529923804, 2.5596661744294344,
     . 5761227548858265, 2. 580945992175444,
     2. 888644465693721,   2. 501861713550709,
     2. 531449259063344,   2. 5360351609595027
       2.5626274391456887, 2.
     633617354028019,2.6156614091661243,
     . 564592526282793, 2. 567114158912941, 2
     . 5709448449405623, 2. 5689740357575594
      2.6026908026801214, 2.
     5660471504117237, 2.8177949175422574,
```

```
7677 2.719975459722825, 2.6356837190227744
       2.6395784071934076, 2.
     573851432329343, 2.586525646256812, 2.
     5966913670669367, 2.639719362612124, 2
     . 6296206109317732, 2. 6165656572506752
       2.62276757793662, 2.6254667117271895
       2.644462279331537, 2.643652998370889
       2.6057606920783902, 2.
     688317616780599, 2.6194428573420017, 2
     . 613582846559124, 2. 5784908577247903,
     2.6354714381841964, 2.594670801986<u>883</u>
       2.7380333653202764, 2.
     6439957795319735, 2.5862424638536243,
     2.5666802724202475, 2.5465388356903453
       2. 5893741183810763, 2.
     6232481356020325, 2.5881483054455416,
     2.606424143284927, 2.5619238394278065
       2.7693123758575062, 2.
     5936043115309726, 2.5430833086555387,
     2. 574541704154309, 2. 5673436058892145
       2.568195225280008, 2.
     5975225707631053, 2.547759444625289,
     . 5968237511905623, 2. 659764913865078,
     2. 5717862447102866, 2. 5810668144697027
```

```
7677
```

```
, 2.6105348798963757, 2.
5693381274188005, 2.677000092871395, 2
 . 582373936971029, 2. 5890254738890093,
2.606185442135658, 2.665244538107036,
2.502950738977503, 2.638203962349597,
2. 56167440061216, 2. 5845647505771967,
2. 5768251065854675, 2. 626301047242718
  2.5219287401364174, 2.
5519575660611378, 2.5421470830469954,
2.5047213471966026, 2.5609201972867237
 2.670345965726876, 2.
4931336391119308, 2.466081595715181, 2
 . 482150560543861,    2. 5119912182843245,
2. 52561260741434,   2. 5763046829788774,
2. 611637868998963, 2. 5804502463635104
  2.649396448959539, 2.
5920270519492066, 2.552107563725224,
. 6288316043806663, 2. 572147958072615,
2. 567877263198664, 2. 6967285768485363
  2. 5297412401364174, 2.
594812722853672, 2.5291691532841436, 2
. 590342863106433, 2. 7447806935251493,
2. 6569724141815563, 2. 699014828528887
 2.60302084463614, 2.7600201736261814
```

```
7677 , 2.555202907986111, 2.540894849800769
     , 2.5336487852496865, 2.
     5587631743631247, 2.541836279409903,
     . 562667257991838, 2. 5672279875955466,
     2.602282135574906, 2.6067450488055193
       2.503112486851068, 2.
     5256986264829284, 2.566525282683196,
     . 5684919475037375, 2. 52915554282106,
     . 524614687319155, 2. 577392742957598,
     . 472742598733784, 2. 633328261198821, 2
     . 504153663729444,   2. 496248998759705,   2
     . 544187639966423, 2. 5591116304750794,
     2.5098452391447843, 2.5441856384277344
       2.6744103843783154, 2.
     <u>58348829952287</u>1, 2.620857356507101, 2.
     533772857100875, 2.5176435164463373, 2
     . 75123021632065, 2. 5756383118806063, 2
     . 485213197307822, 2. 4647500073468245,
     2. 4852804490077642,   2. 492577894234363
       2. 48797873508783, 2. 5065010447561007
       2. 5217599751036843, 2.
     5165866804711614, 2.5014364689956476,
     2. 5663212905695407, 2. 4848366490116827
     , 2.6488364655294534, 2.49403816976665
```

```
7677 , 2.5156608628637995 , 2.
```

- 4966796121479553, 2.5275784480718917,
- 2. 5707677440878784, 2. 5775911307629245
- 2.526397281222873, 2.556033475899402
- 2.4891095338044344, 2.
- 510035597247842, 2.4713755949043934, 2
- . 477238525579005, 2. 4885245429144964,
- 2. 4822892083062067, 2. 5115706361370322
- 2.532144287486135, 2.441099708462<u>9</u>39
- 2.4316963619656033, 2.
- 467707692840953, 2.4676440439106506, 2
- . 5213651303891784, 2. 428380377498674,
- 2. 3854231893280406, 2. 435385974836938
- 2. 3964051140679254, 2.
- 377472065113209, 2.3665396843427495,
- . 4129017959406345, 2. 4798081480426553
- 2.6350249537715205, 2.
- 5095545921796636, 2.4357289443781345,
- 2. 50263414265197, 2. 6073166647075134,
- 2.5081360192946445, 2.473083919949002
 - 2.472767559098609, 2.
- 6522740022635753, 2.5604624336148487,
- 2. 5160335729151595, 2. 44811988171236,
- 2. 4383057252860363, 2. 4491976749749833

```
7677 , 2.4922584015646096, 2.
     421299616495768, 2.474823021594389, 2.
     524346622419946, 2.494371955777392, 2.
     5465880499945746, 2.622076717423804, 2
     . 5746134063343944, 2. 5484132413510925
       2.515225280950099, 2.
     5041204146396967, 2. 4903440828676575,
     2. 4712770014633367, 2. 4515287611219616
       2.5115654085889276, 2.
     463136013643241, 2.454230438044042, 2.
     5252744651135104, 2.4756268159842785,
     2. 4665088889039595, 2. 455014169952016
       2.435447834156178, 2.
     3922480359489535, 2.4797696007622614,
     2. 472815101529345, 2. 4827009130407265
       2.4882565957528575, 2.
     4810142752564985, 2.4791424833698037,
     2. 683807255309305, 2. 4967806545304665
       2. 571385513117284, 2. 475992179211275
       2. 42096248673804, 2. 5888130753128618
       2.5494233355110074, 2.5794196187714
       2.5028421849380305, 2.52740815245075
       2.5641510103955683, 2.
     4582670235339505, 2.425429826901283,
```

```
File - boston01
7677 . 4118723692717374, 2. 5225100576141735
       2.6172151918764466, 2.
     4863218378137657, 2. 4780699647503135,
     2. 4755654747103466,   2. 60775269402398,
     2. 474699679716134,   2. 4406824936101468
       2.438187728693456, 2.
     4362045099705827, 2.477094249960817, 2
      . 4876352710488403, 2. 3974620206856434
       2.4480806751015747, 2.
     4198298042203175, 2.420866389333466,
      . 5516184583122348, 2. 4220638510621626
       2.413914857087312, 2.
     4472209553659696, 2.454400922045296,
      . 501678349059305, 2. 433256361219618, 2
      . 5251437764108915, 2. 3651583871723694
       2.4335722746672452, 2.
     4054290865674433, 2.4292750181975187,
     2. 4246549724060813, 2. 402753853503569
       2.4344424965940874, 2.
     5236397025025923, 2.3999302240065585,
```

2.6405191774721497, 2.

2.80272172998499, 2.4098890563588085,

2. 433031411818516, 2. 4989246792263455

378537119170766, 2.3870680773699724,

```
7677 . 4352694852852<u>528</u>, 2. <u>3738844836199724</u>
       2. 3943667470672985, 2.
     4349708557128906, 2.3695733576645086,
     2.461475372314453, 2.683001294548129,
     2. 4662859645890602, 2. 4504696410379294
     , 2.4249018680902177, 2.
     475896011164159, 2.429777404408396, 2.
     414729177215953, 2.5160322542543763, 2
     . 4006501186041183, 2. 476313155374409,
     2. 452575754236292, 2. 395055064448604,
     2. 3646298161259405,   2. 3754734463161893
       2.452964099836938, 2.
     6539700355058833, 2.3742672955548323,
     2. 372415589697567, 2. 396282196044922,
     2. 3785265463369862, 2. 3302827058015048
       2.3270260139747903, 2.
     4331687173725647, 2.3434524771607954,
     2. 383749008178711,   2. 3357315063476562
       2. 3613314922945, 2. 3574328010464893
       2.5328295201431086, 2.
     4041291460578824, 2.494277247676143, 2
     . 337148054146472, 2. 3687814783166954,
     2. 3694897875373746, 2. 5097869590476707
     , 2.4095799716902366, 2.
```

```
7677 390846487916546, 2.4571011154739946, 2
     . 4107023168493202, 2. 4100273980034723
       2. 3680670231948664, 2.
     363827269754292, 2.411169664359387, 2.
     507862514919705, 2.4275313718819325, 2
     . 4095653722315657, 2. 431910479510272,
     2. 3962153917477456, 2. 4969060450424383
       2. 4117908713258345, 2.
     3938493375424987, 2.480709311402874, 2
     . 5074842241075306, 2. 3632532284583574
       2. 391747509991681, 2.
     3975455672652632, 2.3673747969262395,
     2. 4518373512927396, 2. 3210022066846308
       2. 360636181301541, 2.
     3668546323423034, 2.393572442325545,
     . 4075997435016396,   2. 3850778414879317
      2.4037210440930026, 2.
     3996059276439525, 2.721340697488667, 2
     . 3901783507547263,   2. 3078952836401667
       2.4288407078495733, 2.
     5034059359703535, 2.419237749076184, 2
     . 3348852557900512, 2. 341340900939188,
     2. 328680886162652, 2. 323844674192829,
     2. 3531294928656683, 2. 3636980174500266
```

```
7677 , 2.3641183876696927, 2.
     358006489129714, 2.31703214292173, 2.
     398199693656262, 2.4944132110218944, 2
     . 2908092545874323, 2. 345465671868972,
     2. 3980256539803966, 2. 408516401126061
       2. 3723861553050853, 2. 35159777417595
       2.464757095148534, 2.
     4773858623740113, 2.4643627213843073,
     2. 389885819988486,2. 381943832209081,
     2. 493820590737425, 2. 4317162360674067
     . 2.4173044746304737, 2.
     3853137404830367, 2.36287001621576, 2.
     382950158766758, 2.3295792944637346, 2
     . 3400272086814597, 2. 29626766251929, 2
     . 3440867294499905, 2. 3839938552291304
       2. 3284820038595315, 2.
     420868226039557, 2.3472238470006874,
     . 376966029037664, 2. 3888857806170427,
     2.4129355866232034, 2.31801544001073,
     2. 364460721428012, 2. 5100760518768688
       2. 3611579000214, 2. 324088367415063,
     2. 3021918402777777, 2. 4767623006561656
       2.305340802228009, 2.
     2793317724157265, 2.3082814628695263,
```

```
7677 2. 295796123551734, 2. 3391664764027538
       2.3998099904001493, 2.
     460351143354251, 2.3825530299433955, 2
     . 3738631966673296, 2. 6164126690523126
     , 2.406502547087493, 2.
     3804641064302423, 2.3978417243486567,
     2. 374391296763479, 2. 3494232083544317
       2.366901750917788, 2.4035801122218,
     2. 4219174090726874, 2. 461866072666498
     , 2.4414200723907094, 2.
     4653616304750794, 2.3457213507758246,
     2. 368874279069312, 2. 3865568608413508
       2.4289399606210216, 2.
     3624243795135875, 2.4876845089005837,
     2. 355077955457899, 2. 3597883295129845
     , 2.556957386158131, 2.3611917613<u>4651</u>1
      2. 3888605847770785, 2.
     3498377623381437, 2.4487810017150125,
     2.4666372228551796, 2.410657553025234
       2. 38529544406467, 2. 377649213060921
       2. 422285857024016, 2.
     4476665449731145, 2.5304030901120034,
     2. 3543135089638794, 2. 3808209690046898
     , 2.4229727615544827, 2.
```

```
7677 3355140450560015, 2.3504776424831815,
     2. 3396459979775512, 2. 345136053768205
       2.411372549739885, 2.305384577056508
       2. 289439425056363, 2.
     5518804008578075, 2.3277136249306762,
     2. 4040954731128834, 2. 3400387705108265
     <u>, 2.37292129610791</u>62, 2.
     3703046728063515, 2.3861689155484425,
     2. 3167892032199435, 2. 44989687130775,
     2. 3255878731056496, 2. 3284513685438366
       2.344175574220257, 2.
     4005763442428023, 2.5592529155589916,
     2.43770910192419, 2.3437444427866994,
     2. 332346574759778, 2. 3061173285967036
       2. 305231942070855, 2. 40086614349742
      2. 32129184110665, 2. 417331483629015
      2. 313826596295392, 2. 294041833759826
       2. 337595362722138, 2.
     3969399487530745, 2.4093786639931762,
     2. 354975688604661, 2. 4226548465681663
       2. 3306187759211032, 2.
     380112330118815, 2.351548253754039, 2.
     3634314360441984, 2.420771092544367, 2
```

. 4181414003725403, 2. 3522155903003834

```
7677 , 2.3367522910789207 , 2.
```

- 3769891056013694, 2.4159410735707225,
- 2. 4319158247959467, 2. 376559928611473
- 2.5042137334376204, 2.
- 3809409435884454, 2. 4208796701313537,
- 2. 348057311258198, 2. 340333820861063,
- 2.4408411096643516, 2.4080897908151884
- 2. 4227417133472584, 2.
- 4219845430350597, 2.441573625729408,
- . 42420698095251, 2. 3710429109173057, 2
- . 395417860996576, 2. 4117938147650824,
- 2. 391068588068456, 2. 3697913605489846
- 2. 3845702512764637, 2.
- 4002498815089095, 2.367721769544813, 2
- . 3048455038188416, 2. 320475966842086,
- 2. 3211386645281755, 2. 436497629424672
- 2.3360815165955344, 2.
- 378782743289147, 2.336893340687693, 2.
- 445590454855083, 2.3527816254415628, 2
- . 3361098207073447, 2. 3228862197310836
- 2. 3143301598819686, 2.
- 315111772513684, 2.4235429881531516,
- . 380922082029743, 2. 2774276733398438,
- 2.3620598639970942, 2.4070504270953896

```
7677 , 2. 329353426709587 , 2. 349577044263298
     , 2.3896074883731795, 2.
     3430682759226102, 2.329981509550118,
     . 3588649372995634, 2. 328600377212336,
     2. 3255737445972584, 2. 389836064091435
       2. 3779834700219427, 2.
     3235464449282044, 2.33649<u>5</u>3877<u>0</u>134<u>06</u>,
     2. 3098604178722995, 2. 3665076597237293
      , 2.357776759583273, 2.328217117874711
      2.3645986156699097, 2.
     3453824549545477, 2.3660056502730757,
     2. 3977286962815274, 2. 4325407522696034
     , 2.3610177923131874, 2.
     3990183465274764, 2.3637976469816984,
     2. 362394309338228, 2. 400506525863836,
     2. 3970938788519964,   2. 40487995854<u>13048</u>
      , 2.4035684091073497, 2.
     407698996273088, 2.435064645461094, 2.
     3612649941150052, 2.3250415236861617,
     2. 332572583799009, 2. 331714771412037,
     2. 33460110793879, 2. 330712306646653, 2
     . 329123791353202, 2. 3040619367434654,
     2. 304235976419331,   2. 300734837849935,
     2. 336913874119888, 2. 37414190504286, 2
```

```
7677 . 4686587769308206, 2. 292291547045296,
```

- 2. 3367194658444252, 2. 317755145791136
- 2.435596348326883, 2.
- 3179563592981407, 2.4488195019003784,
- 2. 3240030312243802, 2. 3939486609564886
- 2. 2891049561677157, 2.
- 3338069209346064, 2.390344007515613, 2
- . 456210265924901, 2. 3052134101773487,
- 2. 393527184003665, 2. 3315488320809825
- , 2.326668280142325, 2.
- 3360668700418357, 2.368874067141686,
- . 327196662808642, 2. 350479667569384, 2
- 3703268074694974, 2.309448053807388,
- 2. 3196113256760587, 2. 2947007873911915
- 2. 3095888679410206, 2.
- 370484999668451, 2.5341337227527005,
- . 353765935073664, 2. 339928426860291, 2
- . 3142194159236955, 2. 3320252924789617
- 2. 3219581415623796, 2.
- 308884114394953, 2.3886949515637057,
- . 362640310216833, 2. 3276037522304205,
- 2. 305471490930628, 2. 3400057098011913
- 2. 3029473622639975, 2.
- 3489510806990257, 2.3075037826726468,

```
7677 2. 4506331785225575, 2. 281057192955488
       2. 318447913652585, 2.
     3837340084123024, 2.3539338759434076.
     2. 4146252149417076, 2. 309182814609857
       2. 24209432248716, 2. 251301094337746
       2. 2782693556797358, 2.
     256207619184329, 2.3045906019799505, 2
     . 317503399319119, 2. 2701597566957825,
     2. 2954699198404946, 2. 280422658096125
     , 2.3505051224320024, 2.
     3054111386522833, 2.3457281089123385,
     2. 3410863994080344,   2. 3339790061668113
       2. 328793231351876, 2.
     3256977458059054, 2.3415843822337963,
     2. 301197311024607, 2. 3063704643720464
       2. 3372723850203148, 2.
     316669746681496, 2.2846498607117454,
     . 487458970811632,   2. 2737827536500532,
     2. 294359701651114, 2. 299754743222837,
     2. 305424796210395, 2. 3165301570185908
       2. 3317331149254317, 2.
     298635247312946, 2.3251749674479165,
     . 278616139918198, 2. 29491165537893, 2.
     2668064729667003, 2.429666895925263, 2
```

```
File - boston01
7677 . 230436442810812, 2. 247022181381414, 2
      . 3116268346339095, 2. 245290261727792,
      2. 2512648782612366, 2. 246754187124747
        2. 226101580961251, 2.
      <u>3113652453010465, 2.2537705221293884,</u>
      2. 189549693354854, 2. 2393791057445385
      , 2.26921<u>25343982084,</u> 2.
      2719154828860435, 2. 2219326113477167,
      2. 243711565747673, 2. 5492382991461104
      , 2.3105812543704185, 2.
      2802966318012756, 2.2905535756805797,
      2. 2897571281150535, 2. 3798286767653476
        2. 2783833020999107, 2.
      310323291354709,2.4129613476035034,
      . 301405706523377, 2. 326374854570554,
      . 39269729896828, 2. 3702823733106073, 2
      . 3860321044921875, 2. 312230734177578,
```

- 2. 2604086840594255, 2. 2590386426007307 2. 2877810442889177, 2. 2779842659279153, 2.3760766865294656, 2. 3369844224717884, 2. 3327933417426214 2. 3187282232590665, 2.
- 261097684318637, 2.2654607560899525, 2 . 238361099619924, 2. 221633699205187, 2

```
7677 . 2715473645999107, 2. 236471058409891,
     2. 255483627319336, 2. 2971716044861594
     , 2.2932686982331454, 2.
     315837765917366, 2.36690182156033, 2.
     296298321382499, 2.2615815857310353, 2
     . 2420713872085383, 2. 2926244382505065
      2. 356732592170621, 2.
     3035211680847922, 2.394447373755184,
     . 3754549615177107, 2. 34359300872426, 2
     . 2955232785071855, 2. 292563473736798,
     2. 2999290654688704, 2. 334027961448387
       2. 338444839289159, 2.
     3346066416045765, 2.294907511016469, 2
     . 2812460911126786, 2. 2605246791133173
       2. 335535873601466, 2. 235951270586179
       2. 2241028679741754, 2. .
     3788749789014276, 2.2821322782540028,
     2. 234740221941913, 2. 323041421395761,
     2. 2924122986970126, 2. 33090407760055,
     2. 3273180973382646, 2. 3589668509400923
       2. 3373937724549094, 2.
     3307532086784457, 2.3812039457721474,
     2. 3249555988076294, 2. 4428799947102866
     , 2.3773716349660616, 2.
```

```
7677 4296436309814453, 2.311496193026319, 2
     . 2685235812340254, 2. 2884769439697266
       2. 317072244338047, 2.
     2834443221857517, 2.2707227542076582,
     2. 2514191144778404, 2. 284269803836022
       2. 2992515093014565, 2.
     <u> 258646081995081, 2.3081917232937283, </u>
     . 321981806813935, 2. 271358725465374, 2
     . 275237613254123, 2. 258756943690924, 2
     . 2241073655493464, 2. 2738159320972584
      2. 2402850963451244, 2.
     260981053481867, 2.2313080069459517, 2
     . 38153099719389, 2. 3899786207411022, 2
     . 2580701568980275, 2. 3001494466522594
      2. 292512163703824, 2.
     2563595948395907, 2.3256670869426963,
     2. 34427379090109, 2. 2680815473014926,
     2. 2554852756453148, 2. 360099745385441
     , 2.2849484667365934, 2.
     2975584665934243, 2.4239861523663557,
     2. 274450655336733, 2. 28374954506203, 2
     . 2328979586377558, 2. 257392059137792,
     2. 2604782669632524, 2. 1910200472231263
     , 2.189132972999855, 2.173306665302795
```

```
7677 , 2.2869685844138816, 2.
     230686635146906, 2.2600814207100575, 2
     . 2786119720082225, 2. 3203917138370467
       2. 2803366154800226, 2.
     452398700478636, 2.2439851643126687, 2
     . 2269391660337097, 2. 2536298257333263
      2. 236576669010115, 2.
     2254360811209972, 2.398233507886345,
     . 243448422278887, 2. 2274647936408902,
     2. 1976856891019843, 2. 2246325693012756
       2. 3196774235478155, 2.
     240764453087324, 2.203733750331549, 2.
     232594336992429, 2.2693956634144725, 2
     . 320924594078535,   2. 222710950874988,   2
     . 2265772642912687, 2. 2414381003674166
       2. 2168620074236833, 2.
     1817910936143665, 2.3349623974458673,
     2. 198312830041956, 2. 2067620312726057
       2. 2556174478413147, 2.
     194743898179796, 2.2081656279387296,
     . 255546357896593, 2. 186771039609556, 2
     . 1886476822841314, 2. 275893458613643,
     2. 241628576208044, 2. 4511107456536942
      2.300652374455958.2.
```

```
7677 3461182205765336, 2.2047532164020303,
     2. 283617184485918, 2. 397006282099971,
     2. 221842495011695, 2. 2205782525333357
       2. 2233545986222634, 2.
     335528150016879, 2.338673132437247, 2.
     33650235776548, 2.271402099986135, 2.
     2742335943528165, 2.2243272993299694,
     2. 2194126505910616, 2. 3497372144534263
       2. 257449656357, 2. 2292556762695312,
     2. 2437222563190224, 2. 3422264993926625
       2.230175395070771, 2.
     2063828456548995, 2.274600252693082, 2
     . 2180970980797285,   2. 243123184<u>0</u>157215
      , 2.217039202466423, 2.232991607100875
       2. 252369115382065, 2. 204837328121986
       2. 2302782506118586, 2.
     2795046111683788, 2.288791185543861, 2
     . 2547855377197266, 2. 287563418164665,
     2. 2741962479956355, 2. 2737333745132258
       2. 2976968553331165, 2. 27972678196<u>28</u>3
       2. 322826409045561, 2.
     3017424595208817, 2.3987723927438993,
     2. 3087856857864946, 2. 258667133472584
```

, 2.263799997023594, 2.216531729992525

```
7677 , 2.2209076587064764, 2.
     235637288034698, 2.2372738873517073, 2
      268284173659336, 2.2192234463161893,
     2. 2655295854733315, 2. 3454035770745927
       2. 2687594802291304, 2.
     239249782797731, 2.2472666987666376, 2
     . 2543004353841147, 2. 2369591277322654
     , 2.2611845746452426, 2.
     2005124033233265, 2.2032015529679665,
     2. 190390739911868, 2. 2556800371334877
       2. 339143070173852. 2.
     2381328535668645, 2.236991034613715, 2
     . 216999101050106, 2. 251432913321036,
     . 162959228327245, 2. 3704053619761525,
     2. 190463925585335, 2. 2096658871497636
      2. 236435219093605, 2. 225186006522473
      2. 1957866998366367, 2.
     2052006427152655, 2.2245552628128618,
     2. 1963938489372348, 2. 2587632779721862
       2. 194496837663062, 2. 232985437652211
       2. 224009666913821, 2.
     1981983420289595, 2.1813090053605446,
     2. 193560023366669, 2. 1532633981586975
```

, 2.176727177184305, 2.

```
7677 1973806310583046, 2.181540759993188, 2
     . 2335939525086204, 2. 2222518685423296
      2. 1828942004545233, 2.
     3875413353060497, 2.1526499383243514,
     2. 2356735512062356, 2. 2205341009446133
       2. 2731517273702737, 2.
     2889074867154346, 2.214516463103118, 2
     . 2683627988085333, 2. 199267045951184,
     2. 3758846565529153, 2. 2094241483711903
     , 2.212348113825292, 2.
     2791935956036604, 2.221964447586625, 2
     . 2695213835916404, 2. 2425773290940274
       2.220272723539376, 2.
     2150536996346935, 2.2965087890625, 2.
     224633699581947, 2.2092376049653986, 2
     . 2290114179069613,   2. 2415494330135393
      2. 2541769757682895, 2.
     2659312589668934, 2.255833920137382, 2
     . 195971147513684, 2. 2355157593150197,
     2. 4460227872118536, 2. 363755732406805
     , 2.222846160700292, 2.298455462043668
     2. 2088216145833335, 2.
     1801604047233676, 2.2186951813874423,
     2. 211191106725622, 2. 198745091756185,
```

```
7677 2. 3401674812222706, 2. 1496445455668884
       2. 167713235925745, 2.
     1771623116952403, 2.180591936464663, 2
     . 185129047911844,   2. 17329807046019,   2.
     2391769503369745, 2.2169183095296225,
     2. 222062428792318, 2. 224682960981204,
     2. 23218145488221, 2. 2068323206018516,
     2. 2339001408329717, 2. 256974067217038
       2. 248909373342255, 2. 303622704965097
      2. 2244965117654685, 2.
     3103627334406345, 2.2523737071472922,
     2. 2572131451265314, 2. 235020437358338
       2.204306755536868, 2.
     2084983778588567,2.2107715842164595,
     2. 2254741339035977, 2. 266234974802276
       2. 1856426662868924, 2.
     206523612693504, 2.2616054864577304,
     . 2256831180902177, 2. 1935492621527777
       2. 219882494137611, 2. 223568598429362
       2. 212752283355336, 2. 24533267080048
       2. 204262462663062, 2.
     1917841405044367, 2.2133923047854576,
     2. 2256616192099488, 2. 2338114138002747
      . 2.2425876664526667, 2.
```

```
7677 2777663807810087, 2.249874892058196, 2
     . 2248770866864995, 2. 3343864488012995
       2. 2262666961293163, 2.
     203714629750193, 2.1787212513111256, 2
     . 286236186086396, 2. 1937060650484064,
     2. 2914216783311634, 2. 162207450395749
     , 2.238014268286434, 2.287787402117694
       2.1739348894284096, 2.19207787219389
       2. 1762513054741754, 2.
     169869057926131, 2.125509026609821, 2.
     2105463993402177, 2.3754444122314453,
     2. 1883326871895497, 2. 2005833990779924
       2. 2378968839292175, 2.
     169232403790509, 2.2047606574164496,
     . 3256784368444374, 2. 21896802643199,
     . 1968835430380738,   2. 186846179726683,  
     2. 2714173587751976, 2. 216955467506691
       2. 3124612172444663, 2.
     244680593043198, 2.210654411786868, 2.
     310058452464916, 2.2429130695484303, 2
     . 3622492095570506, 2. 2502849013717086
      , 2.2624545391695, 2.27310354915666, 2
     . 2450311919789256, 2. 234960838600441,
     2. 2373874570116583,   2. 2399368521607954
```

```
7677 , 2.294672459731867 , 2.
     2589632670084634, 2.24735297685788, 2.
     2028794700716747, 2.235236980296947, 2
```

- . 309904333985882, 2. 241064919365777, 2
- . 2709967530803916, 2. 2577456957028237
- 2. 289178447958864, 2. 250888329965097
- 2. 308227115207248, 2.
- 2510965606312694, 2.2302847261782044,
- 2. 3053643497419944, 2. 2426665270770036
- 2. 2549186753637995, 2.
- 244846014328945, 2.2294303517282743, 2
- . 2772314283582897, 2. 292295385290075,
- 2. 308360676706573, 2. 4132908950617282
- , 2.269140926408179, 2.289826922946506
- 2. 2578423817952475, 2.
- 265061154777621, 2.253803724124108, 2.
- 276677637924383, 2.2591946448808833, 2
- . 2865588576705367, 2. 2324145517231506
- 2. 2437944765444153, 2.
- 2326875380527826, 2.257362483460226, 2
- . 2207616876672813, 2. 1732586283742648
- 2. 1908290062421636, 2.
- 3047097524007163, 2.2663804277961637,
- 2. 2631699126443747, 2. 195294980649595

```
7677
```

```
2. 211712754802939, 2.
```

- 2476668887668185, 2.2205640533824025,
- 2. 3234055601520303, 2. 211008330922068
- , 2.2331025629867742, 2.
- <u>23667636918432</u>9, 2.175871130860882, 2.
- 183309484411169, 2.1714471416708863, 2
- . 2081450238639926, 2. 1593841034689065
- , 2.163475060168608, 2.
- 1626579378858026, 2.1993045335934487,
- 2. 2047130678906854, 2. 2541589854676047
- . 2.2778233186698253, 2.
- 1944894201961564, 2.1958912507987316,
- 2. 381990197264118, 2. 194706857940297,
- 2. 203912523057726, 2. 1905695597330728
- , 2.1972586784<u>8337</u>45, <u>2</u>.
- 2106103779357156, 2.2224293461552374,
- 2. 2411924291540077, 2. 24487328235014,
- 2. 2176622225914473, 2. 2979758462788147
- , 2.171625867302035, 2.
- 1796627044677734, 2.1702460300775224,
- 2. 1483870847725575, 2. 245692359076606
 - 2. 176355150010851, 2.
- 2433576701599875, 2.186129558233567, 2
- . 145769707950545, 2. 200515229025005, 2

```
7677 . 190312679903007, 2. 2053063946005738,
     2. 1658234301908514, 2. 2534588001392506
       2. 176230913327064, 2. 218240549534927
       2. 277392210783782, 2. 184153827620141
       2. 1978355219334733, 2.
     205650117662218, 2.259975974942431, 2.
     1763008729911144, 2.1499407497453102,
     2. 1397025732346524, 2. 291043976206838
       2. 1784694341965665, 2.
     1700734974425515, 2.1893185745050876,
     2. 133757273356<u>1196,    2. 15510615596</u>06484
       2. 1508463871331864, 2.
     167116000328535, 2.2391468566141013, 2
     . 220735455736702, 2. 1704369297734014,
     2. 250083758507246,   2. 167103355313525,
     2. 323617864538122, 2. 188637015260296,
     2. 148590511745877, 2. 191656819096318,
     2. 1756319116663048, 2. 2227774726019964
       2. 239564518869659, 2.
     2019917523419417, 2.190962944501712, 2
     . 1807230725700473, 2. 1676243440604503
       2. 165548701345185, 2.
     1889651263201677, 2.2739879702344354,
```

2. 2460257918746382, 2. 2304691974027655

7677

```
, 2.2056319389814214, 2.
```

2281693823543596, 2.1842046902503496,

2. 3025818812994308, 2. 2075017293294272

, 2.2236335895679615, 2.

199466281467014, 2.2194491963327665, 2

. 254683294414002, 2. 1998186700138045,

2. 2043659304395136, 2. 1557967103557822

2.2770677024935497, 2.

2089962429470487, 2.242481208141939, 2

. 1475498058177807, 2. 147074004750193,

2. 1413067711724176, 2. 1268883222415123

, 2.1456613187436706, 2.'

1840202896683305, 2.162986661181038, 2

. 1825774157488786, 2. 252632564968533,

2. 1788018073564692, 2. 1632205350899403

, 2.1622237217279<u>13, 2.259545667671863</u>

, 2.1744855715904707, 2.

1303602383460527, 2.128218332926432, 2

. 2720875681182484, 2. 1861564730420526

, 2.1707029224913796, 2.

2491304374035495, 2.16447373378424, 2.

143801983491874, 2.2118908446512107, 2

. 2154341097231263, 2. 16117783534674, 2

. 2829191419813366, 2. 3280376622706282

```
7677 , 2. 1848850485719282 , 2.
     182745427261164, 2.371936962928301, 2.
     240049833132897, 2.2640532976315346, 2
     . 2236673096079884, 2. 2194916054054543
     2. 2175878359947676, 2.
     218282016707055, 2.219430805724344, 2.
     2126570807562933, 2.2085930153175637,
     2. 2073934578601224, 2. 20614124816141,
     2. 2118204375843944, 2. 204083996054567
     , 2.204886919186439, 2.212524461157528
      2. 2012112935384116, 2.
     207411518803349, 2.204277179859303, 2.
     200507246417764, 2.201438432858314, 2.
     201405042483483, 2.1998026341567805, 2
     . 2041441835003135, 2. 209244316006884,
     2. 2061251652093583, 2. 2019472239929954
     , 2.202697330050998, 2.
     2076359266116294, 2.2046389874116876,
     2. 2050277568675853, 2. 201319400175118
       2. 205100236115632, 2.
     1990593804253473, 2.1958386692000023,
     2. 1949060228135853, 2. 1963014249448425
     , 2. 2017220862117814, 2.
     198299808266722, 2.202760955433787, 2.
```

```
197180524284457, 2.190905465020074, 2.
7677
     1851109163260753, 2.1826226269757307,
     2. 1846234592390648, 2. 183738425925926
       2. 180077682306737, 2. 185241864051348
       2. 18361324734158, 2. 188834908567829
       2. 182441758520809, 2.
     1804308479214893, 2.1966768900553384,
     2. 1984175929316767, 2. 190924020461094
       2. 1852857330699025, 2.
     1859592155173972, 2.1869702751253857,
     2. 1718209113603755, 2. 1814018296606745
       2. 186252005306291, 2.
     1791209939085405, 2.1770237110279225,
     2. 1846743218692732, 2. 1810207131468218
     , 2.1740738433084372, 2.
     171794396859628, 2.164230558607313,
     169126604810173, 2.162455782478238, 2.
     161221186319987,2.159576180540485,2.
     1625663145088856, 2.161158502837758, 2
     . 1643573384226102, 2. 1651166044635537
       2. 164504345552421, 2. 167948145925263
       2. 1696114481231312, 2.
     172968617192021, 2.1699642605251737, 2
     . 166995531246986, 2. 16484922244225, 2.
```

```
7677 1696559529245634, 2.1719670707796825,
     2. 1727555357379678, 2. 1694856337559076
      , 2.166874779595269, 2.
     1749097094123746, 2.175432935173129, 2
     . 1879780145339023, 2. 180903399432147,
     2. 1847941080729165, 2. 1887666207772716
      , 2. 189165445021641, 2. 183038028669946
       2. 184006443730107, 2. 186756510793427
       2. 180779586603612, 2.
     1833522231490523, 2.1765509711371527.
     2. 1751688968988114, 2. 174629187878267
       2. 173589259018133, 2.
     1707725995852623, 2.170336381888684, 2
     . 1741000987865307, 2. 172978907455633,
     2. 1786072342484086, 2. 1809975423930603
       2. 186220169067383, 2.
     1877749878683206, 2.183271007773317, 2
     . 183204627331392, 2. 1795563403471014,
     2. 17998617666739, 2. 1801264256606867,
     2. 18645218272268, 2. 189135021633572, 2
     . 192787688455464, 2. 189321706324448, 2
      . 1875422677876037<sub>,</sub> 2. 18336293726791<u>5</u>5
       2. 187192846227575, 2.
```

1864572925332153, 2.1791256563163097,

```
7677 2. 1798267364501953, 2. 1811818958800515
       2. 17893906581549, 2. 1746159070803794
       2. 174253840505341, 2. 175952982019495
       2. 1798919159689065, 2.
     1815533814606844, 2.180927488538954,
     . 1804945910418474,   2. 1762865090075834
     2. 181746471075364, 2. 178119941993996
       2. 1783292322982977, 2.
     180127320466218,2.1810320395010487,
     . 178249712343569, 2. 1788727795636214,
     2. 174852583143446, 2. 1746236542124806
       2. 176852779623903, 2.
     1747683301384066, 2.176626064159252, 2
     . 1729956261905623, 2. 1748009905403043
       2. 1632603068410616, 2.
     162598880720727, 2.178870401264709, 2.
     1639442208372515, 2.1727831334243586,
     2. 170795581958912, 2. 1715686939380787
       2. 1711239284939237, 2.
     160697583799009, 2.165031150535301, 2.
     1633773615330827, 2.165364041740512, 2
     . 1650000913643543, 2. 1688734690348306
       2. 1693701567473234, 2.
```

1747506695029175, 2.169784333970812,

```
7677 . 1688580689606844, 2. 1665575945818865
       2. 1613259963047358, 2.
     167260534969377, 2.1666617216887296,
     . 165673244146653, 2. 1640682926884405,
     2. 161596957548165, 2. 1644537183973522
       2.1645853490005305, 2.
     1671400423403138, 2.1764535786193093,
     2. 172276744136104, 2. 170465799025547,
     2. 1774785077130354,   2. 179266823662<u>652</u>
     , 2.1836121406084223, 2.
     1794713102741006, 2.1808735647319275,
     2. 17777951558431, 2. 1851273289433233,
     2. 1790586871865356, 2. 1729054392119984
       2. 1699314352906782, 2.
     170545012862594, 2.1672191619873047,
     . 1674924544346186,   2. 1685892269935136
       2. 169458177354601, 2. 171232529628424
       2. 171289349779671, 2. 170453248200593
       2. 1738914442651067, 2.
     1770861354874977, 2.1690752712296852,
     2. 176498860488703, 2. 173990814774125,
     2. 1736728997878085, 2. 172983593410916
     , 2.172180222876278, 2.
     1724604618402177, 2.173023412257065,
```

```
7677 . 171469841474368, 2. 1704557913321034,
     2. 1703775664906444,   2. 170769915168668
       2. 1700913464581526, 2.
     1703801096221547,2. 1701818866494262,
     2. 170610592689043, 2. 1695790231963734
       2. 169048144493574, 2.
     1684228402596935, 2.1688814045470437,
     2. 1691576639811196, 2. 169724028787495
       2. 1698517505033514, 2.
     1690721158628112, 2.1699354148205416,
     2. 1702555903682, 2. 1695963541666665, 2
     . 1686991703363114, 2. 168537139892578,
     2. 1690363471890675, 2. 1687569559356312
       2. 1686075234118802, 2.
     1681636998682845, 2.1677313204164856,
     2.1672161243580006, 2.1663991198127652
     , 2.165224028222355, 2.165002092903043
       2. 165516464798539, 2.
     1658160833664883, 2.165551385761779, 2
     . 1661611250889155, 2. 1644794793776523
       2. 164571408872251, 2.
     1655597451292437, 2. 1652836034327376,
     2. 1655645723696106, 2. 1652760446807484
```

, 2.1656255604308328, 2.

```
7677 1656969564932362, 2.1657497264720775,
     2. 1664452729401766, 2. 1667732191674505
       2. 167698754204644, 2. 167480892605252
       2. 1682149157112027, 2.
     1682917277018228, 2. 1684026600402078,
     2. 16789808391053, 2. 1665530970067155,
     2. 166547068843135, 2. 1662865862434293
       2. 1669200379171487, 2.
     166646392257125, 2.1668995515799816, 2
     . 1680254053186485, 2. 1683033601737316
       2. 1683698348057123, 2.
     1676550735662015, 2.1670247772593556,
     2. 1669072987120828, 2. 1669061213363836
       2. 1668281790650923, 2.
     1667694280176986, 2.1677041465853466,
     2. 1679594487319758, 2. 167327810216833
     , 2. 16725773281<u>52127,</u> 2.
     1669984746862343, 2.1668193722948614,
     2. 167864128395363, 2. 168266367029261,
     2. 167086777863679, 2. 167637507120768,
     2. 167634045636212, 2. 167038175794813,
     2. 1674289938844282, 2. 1683952425733026
       2. 1681142971839433, 2.
```

1674662695990667, 2.1673976521433134,

```
7677 2. 167709020920742, 2. 166646604184751,
     2. 166178173489041,   2. 166583638132354,
     2. 1666925453845365, 2. 1666568473533347
       2. 16675756007065, 2. 1669547234052495
       2. 1672126628734447, 2.
     1672914057602117, 2.1677854326036243,
     2. 168018435254509, 2. 168225959495262,
     2. 1682617281690058, 2. 1682294916223595
       2. 1675290472713518, 2.
     167090545465917, 2.166806115044488, 2.
     166476779513889, 2.1662175684799383, 2
     . 165980421466592, 2. 1660550670859253,
     2. 1659333264386214, 2. 166004298645773
       2. 1660899409541376, 2.
     166773548832646, 2.1665546511426386,
     . 1677080319251543, 2. 1683434615900485
       2. 1677833133273654, 2.
     1675054997573664, 2.1674042925422574,
     2. 1670731909481096, 2. 1672580389328946
       2. 1673579510347345, 2.
     167285919189453, 2.1677222781711154, 2
     . 1676821767547985, 2. 167731343964, 2.
```

1676937385841653, 2.1680163866207924,

2. 1678181636480636, 2. 16727160230095,

```
7677 2. 1669306107509283, 2. 1671808266345365
       2.1677372072949823, 2.
     168530499493634, 2.168482957062898,
     168251720475562, 2.168197043148088, 2.
     1681316987967785, 2.168265825436439, 2
     . 1679678316469544, 2. 168038144523715,
     2. 1684369687680847, 2. 1685803024857133
       2. 168821593861521, 2.
     1688622839656877, 2.1686888329776717,
     2. 168460186616874, 2. 168581267933787,
     2. 1686987700285734, 2. 168690528398679
       2. 16906425099314, 2. 1689133349760077
       2. 1695551460171925, 2.
     1696229864049843, 2.169558631049262, 2
     . 1700611820927374, 2. 169749836862823,
     2. 169658849268784, 2. 1691260632173517
     , 2.1688299767765, 2.16875883973675, 2
     . 169599226963373,   2. 1706958111421564,
     2. 1705748711103277, 2. 1705995489049843
       2. 170887605643567, 2.
     1706811881359713, 2.170879505298756,
     . 170449080290618, 2. 170767937177493,
     . 1721317385449823, 2. 172387629379461,
     2. 1736769264127003, 2. 173463585935993
```

```
7677
```

```
2. 17285540074478, 2. 172872802357615
 2. 173213063934703, 2.
1727933294979143, 2.171827269189152,
. 171883170987353, 2. 172533412038544, 2
1729830753656083, 2.1734244499677495
 2. 1732668464566456, 2.
173327033902392, 2.173275394204222,
172020971039195, 2.172087257291064, 2.
171761124222367, 2.1720441888879845, 2
. 171905352745527, 2. 171721988254123, 2
. 1711656546887057, 2. 1714038848876953
 2. 1719386253827886, 2.
1724895665675032, 2.1722633456006464,
2. 172525405883789, 2. 1725513081491727
 2. 1725616926028404, 2.
172568709762008, 2.1725650128023126,
. 172550790103865, 2. 1725797064510393,
2. 172536779333044,   2. 1725068268952548
 2. 1725216382815513, 2.
172429167194131, 2.1724437195577737,
. 1724891427122515, 2. 172522745014709,
2. 172429708786953, 2. 1725101470947266
 2. 1726089995584372, 2.
```

172502564795223, 2.172578505527826, 2

```
7677 172568733309522, 2.1726729546064214, 2
     . 172684610625844, 2. 1727800957950545,
     2. 1728089885947144, 2. 172809883400246
       2. 1728363037109375, 2.
     172879419209045, 2.172965344087577, 2.
     1729438687548224, 2.173018325994044, 2
     . 1731012838858144, 2. 173049290974935,
     2. 1731030970443914, 2. 1730949966995805
       2. 1731379473650896, 2.
     1730977988537448, 2.173100695197965,
     . 173130930205922.   2. 173145906424817.   2
     1731089839228876, 2.1731268093909746
       2. 173154948670187, 2.
     1732091550473815, 2.173238189132125,
     . 173275394204222, 2. 173225756044741,
     . 1731717380476585, 2. 1731899402759693
      2. 1731900580135393, 2.
     173198017073266, 2.1732402142183282, 2
     . 173308337176288, 2. 1733388076593845,
     2. 1733134234393083, 2. 173272450764974
     , 2.173162789992344, 2.173158245322145
     , 2.1730888037034024, 2.
     1731714319299766, 2.173176306265372, 2
```

1732408735487194, 2.173305605664665,

```
7677 2. 1732509754322193, 2. 1732332912492165
     , 2.173296657609351, 2.173334781034493
       2. 173331555025077, 2.
     1733594352816357, 2.1733681714093245,
     2. 1733458012710383, 2. 173318862915039
     , 2.173391036045404, 2.
     1733169555664062, 2.1733281877305775,
     2. 173282199435764, 2. 1732391074851707
       2. 1732794914716558, 2.
     173286720558449,2.1731480257010753,
     . 1731157420594016, 2. 173182240238896,
     2. 1731385831479675, 2. 173052069581585
     , 2.1730823045895424, 2.
     1730952557222345, 2.173042909598645,
     . 173090758147063, 2. 173131165681062,
     . 1731991944489657, 2. 1731704429343894
      2. 1731639202730157, 2.
     173256014600212, 2.1733359584101923, 2
     . 173280551109785, 2. 173368665907118, 2
     . 173267576429579, 2. 1733089965066794,
     2. 173350746248975, 2. 173314294697326,
     2. 173325550409011,   2. 173402503684715,
     2. 17338416017132, 2. 1733803454740546,
     2. 173391106687946, 2. 1733763188491633
```

```
7677
```

```
, 2.1734753832404996, 2.
173496010862751, 2.17355834113227, 2.
1735927440502025, 2.173659336419753, 2
. 173625781212324, 2. 1737166510687933,
2. 1737518546022017, 2. 173735277152356
, 2.173800762788749, 2.
1737777097725575, 2.1737627806486906,
2. 173825087370696, 2. 1737485814977577
  2. 173810794029707, 2.
1738210136507763, 2.173854074360412,
. 1738370259602866, 2. 173773565410096,
2. 1737953468605324, 2. 1738016811417946
, <u>2</u>. 1738593725510587, 2.
173866554542824, 2.173903900900005, 2.
1739099290635853, 2.1738946938220365,
2. 1738355660144193,2. 173794240127375
, 2.1737460148187333, 2.
173791155403043, 2.1738081802556546, 2
. 173839592639311, 2. 1737920502085744,
2. 1738002447434415, 2. 173746085461275
  2.173646244001977, 2.
1736182695553627, 2. 173691620061427,
```

2. 1736688260678894, 2.

```
7677 173616197374132, 2.1736278298460405,
     . 1736364482361594, 2. 173688323409469,
     2. 173670686321494, 2. 1738353540867936
       2. 1737935572494695, 2.
     1738691683168763, 2.173930839256004, 2
     . 174002824006257, 2. 1739914505570024,
     2. 174028561439043, 2. 1740757742045838
       2. 1740171408947604, 2.
     1740009873001664, 2.1739908383216386,
     2.1740006340874567, 2.1740216620174455
     , 2.1739927456702715, 2.
     1739374796549478, 2.1739783581392267,
     2. 173930391853238, 2. 173871546615789,
     2. 173933971075364, 2. 173963052255136,
     2. 1740409474313993, 2. 1740440321557317
     , 2.174119172272859, 2.174099368813597
     2. 174102665465555, 2.
     1741947362452376, 2.174226384104034, 2
     . 1742154109625167, 2. 174120514481156,
     2. 1741597681869695, 2. 174247200106397
       2. 1742369569378135, 2.
     174202012427059, 2.1741664085859136,
     . 174143214284638, 2. 1741029951307507,
```

2. 1740622814790704, 2. 174068874782986

```
7677
```

```
, 2.1739947472089605, 2.
1739374796549478, 2.174046952047466, 2
 . 1739956184669778, 2. 173988530665268,
2. 1739488766517168, 2. 1739063262939453
 2. 173992062792366,   2.
1739524323263284, 2.1738645059091075,
2. 1738549691659435, 2. 173899191397208
  2. 173926412323375, 2. 173900863270701
 2. 173842724458671, 2. 173862786940586
 2.1737875997284313, 2.
173772081916715, 2.173826570864077, 2.
1738302442762585, 2.1737613207028237,
2. 1737886593665605,   2. 1738382033359858
 , 2.173819694989993, 2.
1738322222674333, 2.1737661479431907,
2. 173764923472463, 2. 173727412282685,
2. 173721902164412, 2. 17380568421917<u>1</u>8
  2. 1737648763774353, 2.
1738327403127413, 2.1738626456555026,
2. 1738870173324774, 2. 1738139729440946
, 2.17383102134422, 2.1737115177107444
  2. 173757294077932, 2.
1737880471311968, 2.1737816657549067,
```

2. 173810370174455, 2. 173816304147979,

```
7677 2. 173834435733748, 2. 173806767404815,
     2. 173837355625482, 2. 1738290433530456
     , 2.1737810535195434, 2.
     173887747305411, 2.173804082988221, 2.
     1738127484733676, 2.1738091457037276,
     2. 1738726533489463, 2. 1739161691547912
     , 2.1739253762327593, 2.
     1738755496931663, 2.173833187715507,
     . 1738560994466147, 2. 173778298460407,
     2. 173762827743719, 2. 1737781336278093
     , 2.17371917065279, 2.173796123928494
      2. 173800456671067, 2. 173833329000591
       2. 173829749778465, 2. 173805472291546
       2. 1737178990870345, 2.
     173699743953752, 2.1738227561668113, 2
     . 1738321987199196, 2. 1738123010706016
      2.1737798055013022, 2.
     1737587069287714, 2.1736653645833335,
     2. 1736717930546514, 2. 1736598544650607
       2. 173630349430037, 2.
     1736516834777078, 2.173640498408565, 2
     . 173636989828981, 2. 1736230026056735,
     2. 1735724931881752, 2. 1736269821355374
```

, 2.173598371906045, 2.173637084019037

```
7677
```

```
, 2.173631032307943, 2.
```

- 1736587006368753, 2.1736425470422813,
- 2. 173678645381221, 2. 173652931495949,
- 2. 1736007266574435, 2. 173561378761574
- 2. 17351791005075<u>73</u>, 2.
- 1735524307062595, 2.1735334514099875,
- 2. 1734721572310836, 2. 1734364356523677
- , 2. 1734542611204546, 2.
- 1733645686396845, 2.1733086668414834,
- 2. 173343046211902, 2. 1733982651321977
- , 2.1733244201283397, 2.
- 1733357700300804, 2.173404152010694, 2
- . 173388563556436, 2. 1734179744014033,
- 2. 1733359113151645, 2. 1733281170880354
 - 2. 1733419394787448, 2.
- 173296068921501, 2.173251187359845, 2.
- 173280056611991, 2.1731655450514804, 2
- . 1731826405466337, 2. 1731192977340132
- , 2.1731076181670765, 2.
- 173176424002942, 2.1731393837634427, 2
- . 1731496975745683, 2. 173089580771364,
- 2. 1731412911120755, 2. 1731723738305364
- , 2.173262466619044, 2.173234162507234
- , 2.1732396490779924, 2.

```
7677 1732929606496554, 2.173330142174238, 2
     . 173304475383994, 2. 1732427573498385,
     2. 1731909528190707, 2. 1731557257381486
       2. 173224413836444, 2. 17332069962113
       2. 1733759420889394, 2.
     173395745548201, 2.1733456835334684, 2
     . 1733677240065585, 2. 173290111400463,
     2. 173284624829704, 2. 1732681415699147
       2. 173243581512828, 2.
     1732522469979747, 2.1733182035846474,
     2. 173319404507<u>8608</u>,   2. 17330732463<u>3</u>1864
     , 2.1733535484031394, 2.
     173302897700557, 2.173382064442576, 2.
     1734016795217257, 2.173454096287857, 2
     . 1733869858729986, 2. 173328611585829,
     2. 173282952956211,   2. 173261147958261,
     2. 1732431812050903, 2. 1731996183042175
     , 2.173167381757571, 2.173169877794054
       2. 173146824777862, 2.
     1731754585548684, 2.173212569436909, 2
     . 1732526708532265, 2. 1733647099247686
     , 2.173456921989535, 2.17334912147051
      2. 1734873924726323, 2.
     1734593709309897, 2.173456945537049,
```

```
7677 . 1733804867591386, 2. 173396028118369,
     2. 173361389725297, 2. 1733489801854264
       2.1734808933587724, 2.
     173516944602684, 2.1734929496859325,
     . 17353559423376, 2. 1735976890281394, 2
      1736429002549915, 2.173660749270592,
     2. 173736501623083, 2. 1737913202356407
       2. 1737403163203486, 2.
     173794263674889, 2.17376325159897, 2.
     1737885651765048, 2.1737845150040993,
     2. 1737615326304494, 2. 1738540272653837
       2. 1738662719726562, 2.
     173798714155032, 2.1737023106327764, 2
     . 1736909371835216, 2. 173651542192624,
     2. 1737036763885875, 2. 173689594975224
       2. 1736282301537786, 2.
     173578968754521, 2.173487533757716, 2.
     1734820471869574, 2.1735380196277005,
     2. 173605012304989, 2. 173591684<u>4120733</u>
       2. 1736199414288557, 2.
     1735859388186607, 2.1736054361602406,
     2. 17357376475393, 2. 1735460257824557,
     2. 1734480210292486, 2. 1733972054940685
      , 2.1733806986867648, 2.
```

```
7677 1733726689844954, 2.173324255295742, 2
     . 1733413036958673, 2. 1733990422001592
       2.1733052759994695, 2.
     173257686473705, 2.17324666623716, 2.
     <u> 17326079474555</u>1, 2.17329491509331<u>6,</u> 2.
     1732753000141662, 2.1732246964066118,
     2. 1731590459376204, 2. 1731585043447987
       2. 1730869669973116, 2.
     1730354214891974, 2.1730401074444807,
     2. 173063749148522, 2. 173045758847837,
     2. 173031818719558, 2. 1731755762924383
      , 2.17317<u>899068</u>19663, 2.
     1731979935257524, 2.173241744806737,
     . 173285354802638, 2. 173282152340736, 2
     . 173254107251579, 2. 1732629375693238,
     2. 173411852047767, 2. 173450893825955,
     2. 1734544495005665, 2. 173570680029598
       2. 173489441106349, 2.
     1735174861955056, 2.1735285299795644,
     2. 173641675784264, 2. 1736970595371576
      , 2.1736324216112677, 2.
     173547061873071, 2.173545625474718, 2.
     1734900533417125, 2.173481246571482, 2
```

. 1734273227644554, 2. 173521583462939,

```
File - boston01
7677 2. 1734756893581815, 2. 17335248876501,
     2. 17335910561644, 2. 1733822763702015,
     2. 173489087893639, 2. 1734754303355275
        2. 1735123528374567, 2.
     173487981160482, 2.173440674204885, 2.
     173399513150439, 2.1735479566786022, 2
      . 17356484024613, 2. 1735778855688777, 2
      . 1736054597077548, 2. 173657829378858,
     2. 17369943783607, 2. 1737961474760077,
     2. 1737034173659335, 2. 173722231829608
       2. 173688276314441, 2.
     1736706156789523, 2.1737264468346114,
     2. 1737310385998385,   2. 1737379615689503
       2. 1737536206657504, 2.
     173763699001736, 2.173836555010007, 2.
     173800951168861, 2.1737697271653165, 2
      . 173664375587746, 2. 1735825950716747,
     2. 1735478153935186, 2. 173596652937524
       2. 1735754601749373, 2.
     1735514417106723, 2.1734872747350624,
     2. 1733918131133656, 2. 173434928611473
```

1733857849497853, 2.1733245378659096,

2. 1733427165467063, 2. 173434575398763

2. 1734967172881703, 2.

```
7677 , 2.1733810518994745 , 2.
     1734304781313294, 2.1733843014564043,
     2. 1734495751651717, 2. 1734952337947893
       2. 173442605101032, 2. 173487345377604
       2. 1735575169692805, 2.
     173531237943673, 2.173468342533818, 2.
     173491254264926, 2.1735959229645907, 2
     . 1735428939630954, 2. 173468436723874,
     2. 1735276822690612, 2. 173503192854516
     , 2. 173463468198423, 2.
     1733467902666255, 2.173280362729673, 2
     . 1732438640829956, 2. 173231077782902,
     2. 173212875554591, 2. 1732865792733653
     , 2.173338171876507, 2.173290511708201
      2. 1732667522665894, 2.
     1733214060465493,2.1732701666561174,
     2. 1733096793845847, 2. 173235363430447
       2. 173288345336914, <u>2.</u>
     1732905823507425, 2.1733644979971425,
     2. 173441121607651,   2. 1734932322561007
       2. 1735412456371166, 2.
```

173499236872167, 2.1734304545838157, 2 . 1734239554699557, 2. 1734106982195818

2.1733980061095437, 2.

```
7677 1733915540907116, 2.1733606126573353,
     2. 1734899356041426, 2. 173490995242272
     , 2.1736024691734785, 2.
     173561025548864, 2.17347119178301, 2.
     <u> 1734629501531155, 2.173468107058678, 2</u>
     . 1735291657624423, 2. 1734553207585843
     , 2.173427134384344, 2.173467306443203
       2. 173491183622384, 2.
     1734878163278837, 2.173421506528501, 2
     . 1734386255711686, 2. 1734416396529586
      2. 1733905650951244, 2.
     1734212710533614, 2.1734808227162303,
     2. 1734546849757064, 2. 173463656578535
     , 2.1733889874116876, 2.
     1735130828103904, 2.1735622029245634,
     2. 1734822591145835, 2. 173533969455295
     , 2.1736069196536216, 2.
     173610051472982, 2.1736518483103056, 2
     . 1736780095983437, 2. 173688464694553,
     2. 173651659930194, 2. 173651471550082,
     2. 1737328282109014, 2. 173712600896388
     , 2. 173726541024667, 2.
     1738537211477023, 2.173841382250374, 2
```

. 1739076449547285,2. 173887935685523,

```
7677 2. 1739270010112244, 2. 173882472662278
       2. 173817363786109, 2.
     1737715167763794, 2.1737500649911388,
     2. 173810299531913, 2. 1738624572753906
       2. 173855322378653, 2.
     1738061080744235, 2.1738429599338107,
     2. 1738684618914568, 2. 173782066062645
       2. 1737694681426625, 2.
     173835942774643, 2.1737945462450567, 2
     . 173878257657275, 2. 1738243103027344,
     2. 173909034258054, 2. 1738626692030163
       2. 173839286521629, 2.
     1738419709382235, 2. 1738212726734303,
     2. 1737855275472007, 2. 1737199241732372
       2. 1737471686469183, 2.
     1737603788022644, 2.1738243103027344,
     2. 173848846812307, 2. 1737886122715326
       2. 1737633457890264, 2.
     1738270889093845, 2.173808698300962, 2
     . 1738563584692683, 2. 1739328407946927
       2. 1740229100356867, 2.
     1739187829288436, 2.1738904317220054,
     2. 173837355625482, 2. 1737822308952426
      2. 1738334938331887, 2.
```

```
File - boston01
7677 1737904018825955, 2.1737127657289856,
     2. 1737187703450522, 2. 1737460148187333
       2. 17374493163309, 2. 173833329000591
       2. 173858901600779, 2.
     1738684618914568, 2.173834129616066,
      . 17367391233091, 2. 1736119117265864, 2
      . 1736507180296343, 2. 173675772584515,
     2. 1736843674271196, 2. 1736711808192877
       2. 1735712687174478, 2.
     <u> 1735315440613547, 2. 1734572987497587, </u>
     2. 17342315485448, 2. 1733697490927613,
     2. 173304357646424, 2. 1733360761477623
      , 2.1733164846161266, 2.
     173367135318709, 2.173418563089253, 2.
     1734002902184004, 2.173485932526765, 2
      . 173404528770918, 2. 1734014204990717,
     2. 173366028585552, 2. 1733345926543812
       2. 173300166188935, 2.
     1732714382218727,2.1732044455445845,
     2. 1732060232280213, 2. 1733096793845847
      , 2.17332312501507, 2.1732506222195096
       2. 173312505086263, 2.
```

1732187153380593, 2.1732234248408564,

2. 1732293117193526, 2. 1732493271062405

7677

```
2. 173258934491946, 2. 173341515623493
 2. 1733068065878784, 2.
1733747882607544, 2.173315260145399,
. 1732843658070506, 2. 1732814223678023
 2. 1732697192533514, 2.
1732411796664013, 2.1733030389856407,
2. 173265433605806, 2. 173237647539304,
2. 173174587296851, 2. 1731796029173296
 2. 1732222474651572, 2.
1732476316852334, 2.173347849904755,
. 1732702843936873, 2. 1732246964066118
 2. 1732026559335216, 2.
1731820047637562, 2.1731996653992454,
2. 1732541778941212, 2. 1732197985237027
 2. 173150050787278, 2.
1730420618881414, 2.172994378172321, 2
. 1730468184859664, 2. 1729458467459972
 2. 172936427740403, 2.
1729360509801796, 2.1728605811978565,
2. 1728657145559054, 2. 1728426615397134
 2. 1728420022093218, 2.
1729011064694252, 2.172805385825075,
. 172760504263419, 2. 1726916277850115,
2. 172721886340483, 2. 172746987990391,
```

```
7677 2. 1727944362310714, 2. 1727353790659962
       2. 1727360854914157, 2.
     172766697259597, 2.172756171520845, 2.
     1728221987500604, 2.172863124329367, 2
     . 1728731320228105, 2. 172861169885706,
     2. 1728199617362316, 2. 17285528300721,
     2. 172789420610593, 2. 1728092476173684
       2. 1728380226794584, 2.
     172917236516505, 2.1729068756103516, 2
     . 1728039494267217, 2. 1728525750431014
       2.172904308931327, 2.
     1728310290678046, 2. 1727345313554927,
     2. 172859780582381,   2. 1729176368242427
       2. 1728543175591364, 2.
     1728829748836564, 2.172959504304109,
     . 1730441105218583, 2. 1730933954686296
      2. 1730824223271124, 2.
     1730222584288796, 2.173025060583044,
     . 1730822810420283, 2. 17309186488022, 2
     . 1731947204213085, 2. 1732075302689164
       2. 1731336381700306, 2.
     1731076181670765, 2.173171055169753,
     . 1731256320152754, 2. 1731911647466964
      2. 1731726799482183, 2. 17314397552867
```

```
7677
```

```
2. 1732476081377192, 2.
```

- 173286367345739, 2.1731926246925637, 2
- . 1732507870521074, 2. 1732205049491222
- , 2.1731641792956693, 2.
- 173178708111798, 2.1730853657663602, 2
- . 173051009943456, 2. 1729903750949435,
- 2. 172991034425335, 2. 1729869842529297
- , 2.17292531331<u>38022,</u> 2.
- 1728356208330317, 2.172827614678277, 2
- . 172823941266095, 2. 1728444982458046,
- 2. 1728087766670887, 2. 1728027720510226
- , 2.17<u>28413899739585, 2.</u>
- 1728346553849587,2. 1727623880645375,
- 2. 1728572609983843, 2. 1728810439875095
 - 2.1729219695668163, 2.
- 1728668919316045, 2.172869411515601, 2
- . 172952604882511, 2. 173037776240596, 2
- . 1730180434238764, 2. 1730239773974005
- , 2.17289705629702, 2.1727921050271872
- , 2.1727238878791715, 2.
- 1727315643687306, 2.1727605984534746,
- 2. 1726581903151523, 2. 172602594634633
- , 2.172628167234821, 2.172616887975622
- , 2.1726900501015747, 2.

```
7677 1726709530677324, 2.172693911893868,
     . 172624752845293, 2. 172638928448712, 2
     1726281201397932, 2.172731399536133,
     2. 1727698290789568,   2. 1728526221381292
       2. 1728687992802374, 2.
     1728780770007474, 2.172956231199665, 2
     . 1729005884241173, 2. 172963860594196,
     2. 1729650615174094, 2. 1729306350519626
       2. 1729357213149836, 2.
     172809954042788, 2.1728745448736495,
     . 1729315769525224, 2. 1729882087236567
       2. 173027109216761, 2. 172973703455042
       2. 173005374861352, 2.
     1730176195686246, 2.1729068049678095,
     2. 1729508859139903, 2. 17298326374572,
     2. 1729664979157626, 2. 172940336627725
     , 2.172849843531479, 2.172770111649125
       2. 1728223635826582, 2.
     1727667914496527, 2.17271672943492, 2.
     1727282912642867, 2.172749248551734, 2
     . 1727111251265914, 2. 172741006921839,
     2. 1727406066141013, 2. 172757843394338
     , 2.172788714185173, 2.|
```

1728040907118054, 2.1727642247706282,

```
7677 2. 172840236145773, 2. 1728956198986666
       2. 172936639668029, 2. 172988561936367
       2. 1729662859881365, 2.
     172902872532974, 2.1728673864293984, 2
     . 172754688027464, 2. 17283868200985, 2.
     1727942007559315, 2.172822763890396, 2
     . 1728831161687405, 2. 172888720477069,
     2. 1728476771601923, 2. 1727866655514565
       2. 1727864065288025, 2.
     1727493427417897, 2.172811084323459,
     . 1728075757438754, 2. 1728201972113714
       2. 1727716893325617, 2.
     1727344136179227, 2.172713220855336, 2
     . 1726705998550226, 2. 1726503018979675
       2. 1727413365870345, 2.
     172809412449966, 2.172812991672092, 2.
     1729027312478904,2. 1728795604941284,
     2. 172890392350562, 2. 1729459409360534
       2. 172861476003388, 2. 172825895709756
       2. 172811884938935, 2.
     1727829450442466, 2.172790904103974,
     . 1727653550512995, 2. 1727350023057728
       2. 1726936293237005, 2.
     1727366270842374, 2.172767733350212,
```

```
7677 . 1728411309513045 , 2. 1728509502646363
       2. 1728637601122442, 2.
     1728490664635176, 2.1728361624258534,
     2. 172904662144037, 2. 1728182192201966
       2. 1728170653<u>920116</u>, 2.
     1728169241069275, 2. 1728183605052807,
     2. 172893524169922, 2. 1729420791437595
       2. 1729665214632763, 2.
     1729280919204523, 2.173010155006691,
     <u>. 173050256423008,   2. 173013381016107,   2</u>
     . 1729873610131536, 2. 17303478570632, 2
     . 173073238796658,   2. 1730273682394143,
     2. 1731146117787303, 2. 173127586458936
       2. 173084541603371, 2. 17310509858308
       2. 173071566923165, 2.
     1730205159128446, 2.1729596926842207,
     2. 172896420514142, 2. 172933884608893,
     2. 1730905933144653, 2. 173110090656045
       2. 1731204515621987, 2.
     1730721320635005, 2.17314409326624,
     1730772183265215, 2.173151769755799, 2
     . 1731674759476274, 2. 1730699421447, 2.
     173039565851659, 2.1730957973150558, 2
      1730093308437017, 2.1729709954909335
```

7677

```
, 2.172988090986087, 2.
```

1729103606424216, 2.1728443569607205,

2. 1727366977267795, 2. 1728298516921054

2. 172838776199906, 2.

<u>17289281774</u>45024, 2.1728923232467086,

2. 172819490785952, 2. 172830628760067,

2. 17280062922725, 2. 172838187512056, 2

. 172802112720631, 2. 172803313643844, 2

. 1727581259645063, 2. 1727901270360124

, 2.172807928956585, 2.172764837005992

, 2.1727404888765314, 2.

1727643189606844, 2.172826366660036, 2

. 172872802357615, 2. 1728186195279346,

2. 1727082287823714, 2. 172711737361955

, 2.172803431381414, 2.

1727839340398343, 2.172774303106614, 2

. 1728574022834684,2. 172742443320192,

2. 17269085071705, 2. 172743950361087, 2

. 1727059917685425, 2. 172535507767289,

2. 17253037440924, 2. 1725504839861833,

2. 1725778461974343, 2. 1725978615843218

, 2.172597696751724, 2.172506096922321

<u>, 2.172496230513961, 2.</u>

1725200605981145, 2.1726626878903237,

```
7677 2. 172705591460805, 2. 1727240527117693
       2. 1727780707088518, 2.
     1727890673978827, 2.1728490664635176,
     2. 172727420006<u>2694,    2. 17</u>278011934<u>25686</u>
       2. 172727843861521, 2.
     1727398530936535, 2.172740936279297, 2
     . 1727475295832126, 2. 172737404152199,
     2. 172778706491729, 2. 172825495402018,
     2. 1727752450071733, 2. 172816594441732
     , 2.1727533458191672, 2.
     172726383915654, 2.172700151985074, 2.
     1726820203993054, 2.1727382989577304,
     2. 172769640698845, 2. 1728031252637323
       2. 1728213745870706, 2.
     1729266084270713, 2.1729229821099176,
     2. 1729100545247397, 2. 1729853830219787
      , 2.1730133339210793, 2.
     1730552014009454, 2.1730645733115113,
     2. 1730584745053894, 2. 1729921411584923
       2. 172994425267349, 2.
     1729802967589578, 2.172957573407962, 2
     . 1730006418110412, 2. 173086213476864,
     2. 173083081657504, 2. 173039989706911,
     2. 173090640409493, 2. 173121417010272,
```

```
7677 2.17312424271195, 2.173129752830223, 2
     . 173202797218605, 2. 1732581103289568,
     2. 173227922416028, 2. 1731581982271173
       2. 1731573976116416, 2.
     1732202223789545, 2. 1732412503089433,
     2. 1732117923689476, 2. 173232443538713
     2. 173179508727274, 2.
     1731322017716774, 2.173055389781057,
     . 1731708196946133, 2. 1732379536569852
      2.1732203401165244, 2.
     173273722330729, 2.1732117923689476,
     . 173186832004123, 2. 173271320484303, 2
     . 1732618779311945,   2. 1733743879530163
       2. 173410674672068, 2.
     1734946215594255, 2.1733353461748286,
     2. 1733150246702593, 2. 173298612053012
     , 2.173294397048008, 2.
     1732510225272472, 2.1732493506537542,
     2. 173363720929181,   2. 1734023388521173
     , 2.173367464983905, 2.173327104544934
       2. 1733151895028575, 2.
     1732744287561485, 2.1732796327567394,
     2. 1732585812792364, 2. 1731845243477528
      2. 173180379985291,2. 173210049852913
```

```
7677
```

```
2. 173240237765842, 2. 173231030687874
 2. 1731640144630715, 2.
173200018611955, 2.173223966433678, 2.
1731221705307195, 2.1731283164318698,
2. 173094360916703, 2. 1729919763258945
, 2.172981615419741, 2.
1730720849684726,2. 1731717615951727,
2. 1732774192904247, 2. 1732649862030406
 2. 173352582955066, 2.
1734060358118126, 2.1733275754952137,
2. 1731865023389276, 2. 173126597463349
 2. 1731417856098694, 2.
1730874379475913, 2.173084565150885,
. 173098905586902, 2. 173099282347126, 2
. 1731096197057655, 2. 173064008171176,
2. 1731586220823687, 2. 173110255488643
2. 173136981917016, 2.
1730997768449196, 2.173066716135284,
. 173033372855481, 2. 173066174542462, 2
. 173070248262382,   2. 172973467979902,  
. 1729857362346885, 2. 172969300069927,
2. 172974127310294, 2. 1729209805712286
 2. 172888273074303, 2.
```

1728939951202015,2.1728468294496888。

```
7677 2. 1729001881163796, 2. 172914198887201
       2. 1729218989242742, 2.
     1728959966588905, 2.1729235943452814,
     2. 172916742018711, 2. 1729101016197676
       2. 172884010974272, 2. 172943421352057
       2. 1729766939893183, 2.
     173019997867537, 2.1729535703305847,
     . 1728131565046898, 2. 1727912808641974
       2. 1727461167323736, 2.
     1726418954354747, 2.172695795694987,
     . 1725506959138094, 2. 172486976340965,
     2. 172512902153863, 2. 172518647747275,
     2. 1725532390453197, 2. 172612555233049
       2. 172678182154526, 2.
     1726775699191623, 2.1727576785617404
     2. 1728071283411095, 2. 172898492695373
       2. 172991175710419, 2. 17298013192636
       2. 17<u>298976285</u>958, 2. 17<u>3002478517132</u>
       2. 1729934598192755, 2.
     1729934598192755, 2.1729268674497253,
     2. 1729461764111933,   2. 172795048466435
       2. 1727861475061485, 2.
     1728603221752025, 2.1728671980492864,
     2. 172814310332875, 2. 1727958726294245
```

```
7677 , 2.17286745707194, 2.172974975020797
     , 2.1730127216857156, 2.1
     172991576018157, 2.173135192305953, 2.
     1731191564489296, 2.173180756745515, 2
     . 173195285561644, 2. 1731028615692516,
     2. 17314096144688, 2. 1731799325825256,
     2. 1731077829996743, 2. 173100224247685
       2. 173121440557786,2. 173047689743984
       2. 1730370462676625, 2.
     17\overline{30439692367742}, 2.1\overline{7303165388696}, 2.
     1730801853132835, 2.1730565907042703,
     2. 1729949668601707, 2. 17297664689429,
     2. 17289682082188, 2. 1729440571349343,
     2. 173034291208526, 2. 1730558136363087
       2. 173055672351225, 2. 173061841799889
       2. 1730887801558882, 2.
     1732361169508945, 2.1732554023648487,
     2. 1732153244960455, 2. 1731702074592496
       2. 173132460794331, 2. 173052752459491
       2. 172991105067877, 2. 173032925452715
       2. 1729938836745273, 2.
     1730158299575617, 2.173005963549202,
     . 1730531998622564, 2. 1730577680799694
      2. 173066292280032, 2.
```

```
7677 1730650913568192, 2.1732318548508633,
     2. 1732459362642267, 2. 1732189743607133
     , 2.1731651211962286, 2.
     173163049014998, 2.1732662106737677, 2
     . 1732655984384044, 2. 173174563749337,
     2. 1731305298981844,   2. 1731216053903837
     , 2.173148190533673, 2.173262607904128
     , 2. 173314106317214, 2.
     1733054643795815, 2.17335922335401, 2.
     1732827645760997, 2.1731849717505183,
     2. 173124619472174, 2. 1730972808084372
     , 2.1730690002441406, 2.
     1730789137475286, 2.1730935132061995,
     2. 173166651784638, 2. 173141997537495,
     2. 173090805242091,   2. 1730517163688754
     , 2.173060617329162, 2.1731388421<u>7062</u>1
      2. 1730806327160495, 2.
     173116260104709, 2.1729954849054782,
     . 173047407173816, 2. 173042415100851, 2
      . 172972031581549, 2. 172969041047273, 2
     . 1728783831184293, 2. 172810943038375,
     2. 172862724021629, 2. 1728931238621843
       2. 172888720477069, 2.
```

1728398358380354, 2.1728472533049406,

```
7677 2. 1727784945641035, 2. 172772796065719
       2. 1728057390377846, 2.
     1727718070701316, 2.1727768462381247,
     2. 172815958658854, 2. 172861334718304,
     2. 1727428200804155, 2. 1727302692554615
       2. 172795660701799, 2. 172765943739149
       2.172802089173117, 2.
     1728108488483193, 2.1728002760145397,
     2. 1727737615137923, 2. 172846499784493
     , 2.1728588857768494, 2.
     1728734852355203, 2.1728531401834372,
     2. 172838187512056, 2. 1728571903558427
       2. 172904238288785, 2. 172843697630329
       2. 172904638596523, 2. 172885164802457
       2. 1728647255603177, 2.
     1729026135103204, 2.172906145637418, 2
     . 1729918114932967, 2. 172966639200846,
     2. 172928798345872, 2. 1729500382034868
       2. 1728584854691118, 2.
     1728393177927274, 2.1728198439986617,
     2. 1727499549771534, 2. 172749860787097
     , 2.1727352377809126, 2.
     1726975853060497, 2. 1727074752619235,
     2. 172672719131281,   2. 172682868109809,
```

```
7677 2. 1727141156608676, 2. 172740771446699
       2. 172797285480264, 2.
     1727677804452403, 2.172742796532902,
     . 1726852935037497, 2. 1726991865370007
       2. 172660333138925, 2. 172650819943275
       2. 172636597244828, 2.
     1726705763075085, 2.172706698193962,
     . 1727140921133534, 2. 17265256245931,
     . 172711407696759, 2. 1728075286488475,
     2. 1728086353820046, 2. 1728302284523293
       2. 172858556111654, 2.
     1728331483440635, 2.1728410132137346,
     2. 1728147577356407, 2. 1728171124870395
     , 2.1727095238956404, 2.
     1727916105293934, 2.1726722246334877,
     2.1726432847387995, 2.1726710708053023
     , 2.172656871654369, 2.
     1726919103551796, 2.1725889370765215,
     2. 1726323822398244, 2. 1727258187753185
       2. 1727950720139493, 2.
     1727578904893665, 2.172809812757704,
     . 1727565718285833, 2. 17279992280183, 2
     . 1728119084864486, 2. 172888273074303,
     2. 1729536409731263, 2. 1729647318522134
```

```
7677
```

```
2. 172954323851032, 2.
1729394889172213, 2.1729106432125893,
2. 172899811356156, 2. 1728733674979503
 2. 172847<u>3710425105,    2.</u>
172777482021002, 2.17287117757915, 2.
1727962729371626, 2.172773078635887, 2
. 1727525687512057, 2. 1727466818727095
 2. 1727722780204113, 2.
1727682749430337, 2.172828721411434, 2
. 1728352440728083,2. 1728198910936896
 2. 1728842229018976, 2.
1728913342511214, 2.172907793963397,
. 1729115144706066, 2. 1728602986276884
 2. 1729151172402466, 2.
172876876077534, 2.1729019070849005,
. 1729353445547597, 2. 1729605403947243
2. 172997415801625, 2.
1730067877121915, 2. 1729406191978926,
2. 172930305386767, 2. 1729969683988593
 2. 1728890030472368, 2.
1728809262499396,2. 1729151878827886,
2. 1729003764964916, 2. 172992706298828
 2. 1730853893138744, 2.
1730309945565685, 2.1730404606571905,
```

```
7677 2. 173118473571024, 2. 1730807975486472
     , 2.173176070790232, 2.173161259403935
       2. 17313085956338, 2. 173090828789605
       2. 1730259318410616, 2.
     1730231767819252, 2.1729743156904058,
     2. 1729187435574002, 2. 1729503914161965
     , 2.1730198330349393, 2.
     173023082591869, 2.173068388008777,
     173069989239728, 2.173108395235038, 2.
     173169406843774, 2.1732361169508945, 2
     . 173188433235074, 2. 1731938491632907,
     2. 173323854988004, 2. 173359293996552,
     2. 173367041128653, 2. 1734047406985435
     . 2.173347826357241, 2.
     1732991536458335, 2.173246807522244,
     . 173264562347789, 2. 173328823513455, 2
     . 1731991238064237, 2. 1732142648579162
       2. 1731780487814065, 2.
     1731350274733554, 2.1731863375063294,
     2. 173178849396882, 2. 1731833940670815
     , 2.173135828088831, 2.173127398078824
     , 2.173195662321868, 2.173138842170621
       2. 1730629720805603, 2.
     173106346601321, 2.173200301182123, 2
```

```
7677 1731305298981844, 2.173074581004955, 2
     . 1731226650285134, 2. 173176188527802,
     2. 1731562202359425, 2. 173174116346571
       2. 1731412440170477, 2.
     1730467949384527, 2.1730628543429904,
     2. 1731080655698425, 2. 1731065585289473
      , 2.1730689531491127, 2.
     1729468592890986, 2.172950862366476,
     . 1730355627742814, 2. 1729454228907454
      , 2.173004456508307, 2.173019950772509
       2. 172957549860448, 2.
     1729548418963396, 2.172936121622721, 2
     . 1728548120569298,   2. <u>17288966237762</u>84
       2. 1728201265688294, 2.
     1728315235655984, 2.1728207152566794,
     2. 1728154170660323,   2. 1728623472614053
      , 2.1728713424117476, 2.
     172846923639745, 2.1728778415256076, 2
     . 172820880089277, 2. 172826107637382
     ], 'loss': [472.1426526710345, 287.
     8999270034648, 131.47399220894735, 69.
     <u>256</u>18956480233, 52.71<del>2</del>19594855057, 42.
     1388624917612, 43.81069944665159, 37.
     22279990051553, 31.903900459454892, 36
```

```
File - boston01
7677 . 3089194637334, 38. 450671334753835, 29
      . 875319666906776, 37. 355040125064434,
     30. 992962408361052, 30. 581328162098817
       31. 939106200132578, 29. 8939743484875
       29. 32565692039466, 31.
     750882116264602, 30.44629925913855, 28
      . 32765529325503, 25. 171209790020168,
     29. 779886995675763, 28. 085699075515794
       22.491096472961615, 27.
     444419896270468, 25.727184212982838,
     30. 722063212202798, 28. 10788171247063
       26. 913246128212187, 30.
     866333043243124, 22.863209420313407,
     24. 244424137906762, 24. 96849146568369
       27. 2516492704858, 25. 05713540186454
       27. 282521392538822, 22.
     95943241296538, 26.554083889113862, 30
      . 040696362223787, 23. 733836436972897,
     27. 459547969948026, 28. 80373214568147
       23.66597358065862, 23.17241836110874
       22.74426525812769, 25.58438038309292
       24. 911859652575323, 23.
```

076648226647922, 27.39041254616374, 23

32928791577602, 23.833920954181682,

```
7677 27. 0363004613587, 23. 607277625116403,
     25. 03659147522398, 22. 6917580111477,
     25. 815907670248404, 21. 17553638304719
       22.620951425180348, 21.
     213383394129135, 24.010364733244245,
     21. 93558145233721,   21. 96064351439107,
     25. 670650575183124, 22. 059640972975977
       24. 21791145251631<u>5</u>, 23.
     46461378753001, 21.426121608391636, 23
     . 487994108406753, 23. 831928663578566,
     24. 142821403479797, 20. 36885826506482
       20.608894383575155, 20.
     11015743810695, 21.68400403958725, 23.
     243343902446167,22.118542771221314,
     24. 036187611866293,19. 953847501300068
       23.706831828820818, 22.
     292705646609374, 22.4840591655058, 21.
     268122050046184, 19.344470139258416,
     20. 48290354253338, 20. 113725727187592
       23.839304117964517, 23.
     272017986781826, 24.078477446139782,
     19. 198880393438664, 19. 864149329832095
       22.50057805064293, 21.
     080266556872672, 22.19545476281606, 23
```

```
7677 . 353586816935348 , 21. 3837804085699 , 21
     . 474769075588544, 23. 064452791361617,
     19. 742023308579768, 24. 82476951315676
       21.069784327557212, 22.
     633901655120376, 22.824938641244042,
     20. 916508205165805, 25. 513698297388412
     , 23.195546330313196, 22.
     805454370776197, 19.96950394597954, 22
     . 85253914517146, 17. 819867835325354,
     22. 41301239533321,   21. 33438899863984,
     22. 00471777960243, 17. 460696300116854
       23. 67122<u>713921609, 22.</u>
     646629546079843, 22.326481340839397,
     20. 295369883439857, 21. 26172537552683
     , 18.43924406364606, 18.
     381154931366627, 20.855625589565594,
     20. 029305863491153, 20. 534692969484595
       20. 97474964041459, 18.
     605347872518532, 19.417408442718695,
     19. 473390638274672, 20. 24578056099245
     , 18.700121988822062, 22.
     449061567938365, 19.84875955965497, 19
      . 397428645438087, 14. 995823588533668,
     22. 389391367649516, 24. 65429876758587
```

```
7677
```

```
, 18. 22147855005766, 19.
675958668853475, 16.517178101436272,
21. 30503466697669, 18. 951102643559224
  18. 49706456092858, 20. 08226325489788
 18. 140112487893354,   17.
123659564983733, 21.40227742387045,
. 22812759470275,19. 08949830805185,21
. 0541428309107, 15. 45064896326685, 19.
577272364967747, 21.836772517154092,
19.829827503523223, 20.550952686982995
, 19. 25201314447834, 21. 46419566482213
 19. 740329116490603, 21.
35293674468994, 19.706698151195752, 19
. 197922288817885, 14. 849916774791092,
19. 522976518784514, 20. 368692823238785
  19. 230980247166872, 20.
18121825578412,18.605908420432833,17
. 40277082927456, 20. 476898594906455,
19. 598301713311635,   17. 405959727225287
  19. 97156790387889, 20.
685886999770954, 20.275837328411846,
20. 849738094459745, 18. 57303558266938
, 18. 222038404860363, 16.
52131257190055, 18.058022000103175, 16
```

```
. 94968482215338, 17. 368403431800864,
7677
     15.46598063312448, 19.62525692222288,
     17. 122470500668506, 19. 520527139905806
       19. 708517910157195, <u>17.</u>
     658718768288107, 17.524048388188838,
     18. 302399366632702,17. 923672519601165
       16. 59335854917119, 18.
     927339955380088, 20.998885528221958,
     18.629756059439927, 17.166422227587862
     , 19.456545660001204, 18.
     600868549878385, 20.436245906463718,
     17. 481514142393696, 17. 165821652663382
       20. 259859696999424, 18.
     237721311787702,16.113468926019344,
     18. 949093355113877, 16. 752135363156583
     , 15.423745793085718, 16.
     819133625680077, 17.275859329722614,
     18. 393211267311877, 18. 506123799657676
       17. 08400379098237, <u>1</u>7.
     347668178310336, 16.48178079918073, 17
     . 93188951628127, 17. 847112166254146,
     17. 746009770561667, 20. 680810154776086
     , 17.720446288401128, <u>17.</u>
```

53007572280364, 18.006574393056862, 16

```
7677 . 918634063319157, 20. 051558243600947,
     16. 682275258350668, 17. 540217198823626
     , 15.722223020559493, 15.
     762206408261514, 16.9766584549895, 17.
     062902952495374, 18.074771242245063,
     17. 322302691338603,18. 007390723693483
     , 18. 286838162425134, 16.
     36454344312473, 19.82540930166333, 18.
     98156260558326, 17.35359619719325, 20.
     108193638154965, 18.087740450820686,
     17. 297211638914174, 16. 257879221771525
      16. 568690213625644, 15.
     739075454026922, 16.15619013700692, 13
     . 795895834825357, 18. 398900531024754,
     19. 259010551145572, 19. 563044240969255
     , 16.590743884029035, 17.
     708191567530204, 16.0462400<u>71394127,</u>
     18.830137506727095, 17.34210701402127
      14. 546734848258666,15.
     236199674222492, 17.828572332305434,
     21. 175138408554595, 16. 552273615964058
     , 16.423151823020202, 16.
     004667103844163, 19.16992182775917, 18
     . 917444299987228, 18. 994003995653276,
```

```
7677 18. 756804729024694, 14. 483452789554654
     , 15.366690201655999, 17.
     408965900032882, 17.344001288015406,
     17. 008638981695146,   15. 292993256182124
       16. 47824198837989, <u>17.</u>
     669086744172656<u>,</u> 15.<u>368526020563055</u>,
     14. 233790561510682, 16. 825441366378737
     , 15.885266123910437, 17.
     430399820900554, 17.898581301095685,
     16. 55092696139687, 16. 691638609942267
     , 15.573787441194611, 14.
     815551807267747, 15.020688021515175,
     15. 41656200214067,   15. 490980107717839
      , 17.5251012630876, 17.99624318456502
     , 17. 268836157240735, 16.
     74886091058099, 15.288198912475869, 16
     . 17142640843111, 19. 45287453205593, 14
     . 592139417542024, 16. 831385515053576,
     18.66505021133659, 16.60428397943361,
     14. 786864127167977, 15. 842389369527622
     , 18. 113653029450692, 15.
     383278578058485, 16.79617369654747, 17
      . 073533347516605,16. 783952842924986,
     16. 339662699507485, 15. 318170943127328
```

```
7677 , 14.896217762501248, 15.
     089050402582245, 14.663658986519733,
     16.829004441252433, 14.150286300079003
       13. 2437410679395, 15. 514249004446684
       17. 342819934289892, 15.
     839342122476536, 16.88707943006935, 14
     . 424328245983773, 18. 51165883090843,
     16. 476546085286806, 16. 639559474522855
     , 15. 950158399694105, 16.
     01332544025622, 18.87664914057351, 13.
     <u>484308337279517, 13.22937449582221, 15</u>
     . 817501540523564, 15. 934725291957797,
     15. 233565339363027, 17. 338142855617654
     , 15.049189921872166, 19.
     174792071245033, 14.042918193451023,
     18. 74661865913462, 15. 33228877159095,
     16. 927883868616064, 15. 580440397233048
       14.468618512522694, 15.
     60566714525961, 16.020379337363938, 15
     . 576448756474829, 17. 683551711563723,
     16. 259629984758217, 15. 523036998122839
     , 12.947382<u>380</u>718786, 1<u>5</u>.
     409039111329307, 13.837814103708178,
     14. 982774746307278, 17. 97156424271433
```

```
7677 , 13. 346983370766182, 15.
     793730845023235, 13.419176850156518,
     15. 337616262052082, 15. 103969607928958
       14.668205107697762, 13.
     656389956134761, 15.841174797376981,
     13.467443063163167, 18.502086553780288
     , 16.231533223261405, 14.
     819368973605036, 18.105518057619456,
     14. 972335242634587, 16. 99372345301389
     , 13.119836063207856, 14.
     254174341727337, 12.694537431462999,
     16. 471773394121104, 15. 63100190206947
       15. 55613565592574, 15.
     424152686869029, 14.605941708981069,
     16. 14974829213169, 14. 187256821906972
     , 17.861507443820727<u>,</u> 15.
     737360257482381, 15.505874675124792,
     12. 536302941502433, 15. 167001765578894
      17. 991054465527135, 14.
     429365928697143, 17.14189265756046, 15
     . 949971528614268, 15. 813915059293386,
     13. 175477910706133, 14. 112858978956476
     , 12.843398623053135, 15.
     230821450059258, 13.1650433555107, 13.
```

```
7677 880710395127997, 16.850065467527408,
     15. 309142044823236, 15. 314793716643248
     , 17.115799127348435, 12.
     935951851469813, 15.244536308312195,
     17. 291334913241975, 15. 907000476730866
       15. 02458201251901, 16.
     987476463288345, 13.732842036445074,
     14. 330075107491792, 13. 031760271119628
       13.854458903380591, 16.
     36772515087305, 16.228951550858678, 16
     . 295962040638408, 16. 63136645810154,
     14. 459123822926736, 16. 368266881065843
       14. 041664457173539,15. 6914246938546
      13.660936408367688, 13.
     299460855430862, 13.856974855665083,
     15. 974993915380708, 14. 845596577729973
     , 14.427784013305287, 13.
     312862012408466, 18.57616822564565, 19
     . 049327465033752, 13. 027441709034214,
     15. 398418544615755, 15. 433422289396587
       16. 99718872164794, 15.
     036271617877594, 14.925951014362253,
     17. 08045118438201,13. 710731401532058
     , 14.23502392111917, 15.
```

```
7677 313015350247316, 16.254720575669232,
     13. 264816077501044, 13. 66765591456056
     , 15. 151850248637952, 13.
     866923737821196, 14.147241328153816,
     19. 10495391792557, 12. 805487960484744
       13.861545866118865, 13.
     908363923568844, 15.073635620967522,
     15. 525899281811787,16. 780838916176243
     , 15.806093587963943, 12.
     29509114185723, 12.500470069170737, 11
     . 984526164760531, 15. 799309538613901,
     13. 02945727312897,13. 389628785313468
       13. 922657131041536, 14.
     121028047597076, 11.935394027284794,
     15. 481682059934634, 16. 435336204505187
     , 15. 249802703089758, 14.
     494053972025775, 14.733830716218742,
     17. 878112657889492,11. 58090673659239
      12. 594108262667346, 17.
     109954670117734, 15.358159209921633,
     14. 215532616565103,16. 130529447974805
     , 13. 17581366311655, 14.
     072087961084703, 14.86225633355486, 12
     . 252513241841697,13. 855132118467207,
```

```
7677 14.036883490004406, 11.612124800313,
     12.684321559988676, 15.478136368580278
     , 13.670349964785503, 13.
     429672199875208, 15.170030688353735,
     15. 040682169675089, 15. 95201880274911<sup>4</sup>
       14. 225625336400865, 12.
     404179649825435, 12.514370288642198,
     11. 270576978984632, 12. 142903447520252
      , 12.917558247829, 15.123680044622983
      13.935352480079368, 12.
     615269143514958,14.093265140757842,
     10. 966221463569546, 12. 364887342364426
       13. 337668167917352, 10.
     877042643426003, 14.196305434401191,
     11. 375519319953565, 13. 74247252018459
     , 15.83195046817555, 13.291395882<u>7</u>0394
       14. 364451145609097, 11.
     683405867302012, 15.10292224470676, 13
     . 628565680500893, 13. 005624320853974,
     14. 748591200301522, 14. 282288825917908
      , 11. 97938394841764, 13. 99332552871468
     , 13. 918118810506058, <u>13.</u>
     102296123379155, 14.592644180675778,
     13. 993717580387836, 16. 023473184544237
```

```
7677 , 14. 318968296051025, 12.
     991210735250183, 12.974955904225446,
     12. 083919689751262, 11. 756162011586476
      13. 992529228375792, 11.
     343604825967606, 12.635885640194541,
     16. 072665824240577,13. 497909322611688
     , 14.169832034745822, 15.
     708061454465884, 14.414317268336152,
     14. 8677894810774,15. 415238194421349,
     11. 413258471356087,13. 6732185617689,
     12. 90086909639577,13. 971144758879953
      14.533598562512235, 15.
     04570059289135, 12.310373530668372, 13
     . 340685971381125, 14. 327005852855764,
     14. 961454890460791,12. 277481443741742
     , 14.131596999271736, 12.
     217259362755176, 14.683294845439333,
     13. 326850659337945, 13. 765952060097142
     , 13.072181955579634, 14.
     032410420869526,12.907893691638675,
     13.421658070094814, 13.0715415736101,
     15. 533924775965074, 15. 339760961916424
     , 13.816194162280198, 14.
     57017785181571, 13.207507185522617, 14
```

```
7677 . 85557724152556, 15. 73395532424974, 11
     . 674345308782147, 14. 367876903191439,
     11. 5541771809014, 15. 211259016680645,
     13.557417169813032, 12.9226006066467,
     13. 391750790386377,13. 13793071061834
     , 13.122003081413245, 12.
     437281414820314, 14.309030789708943,
     11. 194302228213095, 12. 191199794273258
     , 11. 282432863217759, 12.
     042493579557437, 11.878294838471309,
     15. 51749620939556, 12. 957946481350406
      14. 08576873212407, <u>11.</u>
     086731237523695, 13.982857633301348,
     13. 148915872485276, 11. 4148279786479,
     12. 576202711453748, 13. 508467423288446
     , 12.583387057<mark>478584, 11.75006525</mark>73057
      , 13.749480783385758, 13.
     571950667413764, 11.726541750940376,
     13. 098053991240983,12. 942173137015233
     , 11.051994627843332, 13.
     76713173160612, 12.783136477042278, 12
     . 497832514553247, 15. 537590493358694,
     13. 42615311138401,   12. 368931221150<u>023</u>
      , 15.13149127724001, 14.
```

```
380844083732864, 13.539337958344735,
7677
     10. 81688491478793,12. 931133530088253
     , 12.667721343852419, 12.
     617675569404389, 13.139568113321122, 9
     . 4876000608084, 12. 788833117706488, 10
     92808429966032, 13.009196613595213,
     12. 24313906028913,13. 14397366054287,
     11. 490629411703292, 12. 747152476118814
     , 13.775036771231022, 11.
     849659899070906, 13.900834154418378,
     12. 592764697207755, 12. 759126184894573
     , 13.073428537823467<u>,</u> 12.
     996590564125462, 11.369124326912612,
     10. 534327408108549, 13. 089367067481712
     , 13.040154489570359, 11.
     83813293947155, 12.021638480502386, 14
     . 328117338127395,16. 09448420374017,
     14. 032396393294674,15. 994362432521195
      977571164122306, 12.680871951690769,
     15. 210194751574159, 11. 76221638345866
     , 10.61192707085388, 11.
     203077824861273, 11.600952424501118,
     12.440995644489679, 12.657361423268037
```

```
7677 , 13.098595722540983, 14.
     180416496914606, 11.17230968652495, 12
     431359821059756, 13. 246296723191582,
     9. 762073571467916, 12. 539669401505414
      12. 348905803341614, 12.
     44766353822714, 12.761508333424665, 13
     . 835448895445548, 11. 191749788290206,
     10. 38522150789621,14. 687853066175714
       10. 759839627764912, 12.
     907884112083506, 12.20984716681135, 12
     . 717432780531539, 12. 262971636127023,
     13.451137324235757, 10.406410828463434
       11.893705991030478, 13.
     216770885898601, 13.198808853102173,
     12.8774698496603, 14.651381077781181,
     11. 517811837211113, 11. 979850225773388
     , 10. 89316818367217, 11. 94541540824961
       11. 923406657050638, 10.
     699719136713458, 12.926684491774616,
     12.604260046046585, 11.841899089399876
     , 11.170751892007173, 12.
     89598314385665, 14.564402819417948, 11
     . 349186748173953, 10. 554068769094744,
     12.850244610671288, 12.455348685060862
```

```
7677
```

```
, 12.291346986965499, 12.
10706546653535, 12.885021103424922, 13
. 867193971255984,13. 311872560542435,
12. 159115379439788, 12. 980415528034648
  14.845634594790338, 11.0749128182237
  13. 55530636672265, 11.
408303802596526,11. 363185498736591,
11.847069876850943, 14.244229744093337
, 11.816255755468788, 14.
301597043087607, 13.494887963168024,
13. 245955839245681, 12. 79944347264966
 11. 670089393946409,13.
335526492942597, 12.341391850920285,
14. 545132191188564,12. 089581028964867
, 11. 236981487495612, 1<u>3</u>.
665748336366825, 10.979414635767508,
13. 686624181528948, 13. 5193915<u>4704658</u>
, 11.394671130106545, 10.
809614813364696, 12.292804024167843,
994782214563328, 10.303093734540438,
9. 285638790012513, 11. 514885869926712
 13. 056941955082188, 13.
40675713846189, 10.533780102390255, 14
. 641819538346754, 12. 142766232091946,
```

```
7677 11. 467731663317133, 14. 064431984727227
     , 11.174701419039039, 14.
     137116210748538, 12.555843914256377,
     . 136998462972258,12. 107880022503643,
     10.6962256653021, 11.924045552410208,
     11. 618834170763707, 13. 505677356070409
     , 11.62764381550414, 11.
     953207725341844, 10.607196376788727,
     11. 488213376733171, 13. 257901560780434
       9. 44844175049395, 11. 459000820714992
       10. 67645429605301, 12. 0325615767724
       13.63160527822772, 11.
     618134483833432, 12.163953149281788,
     14. 220688667090684,11. 240637991819588
     , 10. 251049627829632, 11.
     935424379520002, 12.769338046803194,
     12. 537327211338669, 10. 477493079638702
      10. 739570709204894, 11.
     828508654615089, 13.063007706090024,
     11. 194560036201596, 13. 439114422990073
       9. 41881450337153, 10. 525724759411885
     10. 42856622701828, 11.
     758649331497335, 11.014613302868586,
     13. 294131760257686, 12. 29343208809017
```

```
7677 , 12.015828153297258, 11.
     612513249872638, 9.998163725200452, 14
     . 510885333129126, 11. 172448831446031,
     10. 71751092314351, 11. 749234261896587
      11. 92191379653411, <u>1</u>0.
     577688024509063, 10.204798596562247,
     11. 773736298268794, 12. 806341428136678
     , 12.7932818460021<u>6, 1</u>1.
     249053174128104, 10.928794960119406,
     12. 101002683949543, 11. 414810740172678
     , 11.922715895685249, 12.
     617321801259422, 11.990819405476007,
     12. 15846522968989, 10. 346980682467528
     , 11.280734918434922, 10.
     297586210740977, 12.310624208243638,
     12. 250822032568255, 9. 879467518337002
       9. 74917088878044, 11. 648972313470516
       12.030158338162922, 12.
     646084995092622, 12.749613649704877,
     11. 58915181351889, 12. 034386099861134
       10. 51258019175692, 12.
     637298589889479, 13.697195224348606,
     10. 869250658495876, 10. 838698889079847
      , 10. 93376693784637, 8. 610891229966107
```

```
7677 , 10.111235258749026, 10.
     572827621879224, 9.323315382741923, 15
     . 464434865827531, 12. 105849434347714,
     9. 49652733522303, 10. 659835310543285,
     11. 042788136485191,13. 200656941062526
       11.698050081545354, 11.
     455909064679693, 11.973924202815667,
     11. 70105109163113, 11. 374931270493073
       10. 910418799787115, 9.
     687111465739022, 9.9660060<u>0</u>2928081, <u>1</u>1
     . 089969698489634, 13. 324657295510496,
     10. 878400158955955, 9. 662417321382293
     , 12.039914805822697, 11.
     727763110085538, 10.883116117571898,
     10. 489692552170887,12. 73439416206289
     , 12.008588891280326, 10.
     464469177435056, 12.902756445917182,
     10. 093968491805228, 10. 729242673230244
      11. 373665405131716, 12.
     02791437497449, 10.96744891364508, 11.
     704309977245035, 11.116593838476176,
     11. 921052323037257, 12. 161926387633333
      12. 49923016892129,12. [
     465676170015483, 13.285004290264826,
```

```
7677 11.690104452080032, 10.609522502119697
     , 13.087249617827567, 11.
     395308664339614, 9.533010606795273, 12
     . 125072253377814, 11. 49386291090549, 9
     <u>. 709334234473506</u>, 11. 955308890564154,
     12. 13443095617619, 11. 385520217588443
       9.543992618289156, 13.8526841745288
       12.06025117838715, 11.
     647144122758517, 10.449657009112945,
     12. 4912318888809441,   9. 624389801970207
     , 10. 91118664933432, 12.
     034289126794773, 11.262328367853312,
     11. 564124897168517, 10. 230850004190263
     , 14.14899803610409, 10.
     767075485489316, 9.621573908779274, 10
     . 46517246647885, 10. 315746661679295.
     12.844422555929366, 11.272012775527434
       11. 465316379771513, 11.
     442334665233506, 13.893373394898218,
     10. 111787159745537, 11. 69978135104519
     , 11.078977747229231, 11.
     662106232746467, 10. 573877936915347,
     10. 191473314267563, 12. 621405419919514
     , 11.392337592393622, 8.
```

```
953408126122442, 11.414995080915398,
7677
     10. 476524322763686, 11. 05293127479199
     , 10.954962895750631<u>,</u> 11.
     965918680831743, 11.944975448466677, 9
     . 335154412331596,   12. 293178581<u>970025,</u>
     10. 506946934635057,11. 896011624173852
     , 10.839044247249332, 11.
     71597083360418, 11.140890844835216, 10
     . 822813834937364, 10. 135806711096512,
     14. 275675921248208, 10. 267592999957294
     , 10.198140661044755, 10.
     001571065501162, 11.689974108716651,
      . 398947016004438, 12. 489445030873775,
     9. 201626133992576, 10. 647817813944153
       9. 796362023604544, 12.
     303245001164013,10.377845634340133,
     13.040828720334883, 13.494724276634193
     , 11.460160586856098<u>,</u> 10.
     128386978763546, 11.380907962196751,
     11. 753829432714834, 11. 23057811252842
       8. 583300953679041, 12.
     474512767496492, 11.695486452557354,
     11. 471141958384322, 11. 013333016504813
      , 11.142556325569979, 12.
```

```
7677 824183949006969, 9.888908687206245, 13
     . 277548689591256, 11. 414688624095621,
     9. 005896309373364, 10. 757094749356202
     , 12.322606225500904, 12.
     652202642739004, 11.314608442525007,
     10. 436963615771786,   8. 560172314245266
     , 13.027456626065375, 11.
     221097955024648, 14.054119372769222,
     11. 170362935346716, 9. 224073976555108
     , 9.787137210184575, 9.567237555796147
       13.129019537946387, 8.
     602832335067607, 9. 99873159470573, 11.
     011802702865364, 11.2289061280596, 11.
     419400286010175, 10.85235873243019, 13
     . 241198241526128, 10. 831487533477807,
     11. 08567485204053,11. 667659994249373
     , 10.056928833202681, 9.
     790522867681073, 9.540568924540706,
     . 610236951810288, 11. 4266143819496, 11
     . 662166294298673, 9. 667881708765178, 8
     . 769949638437561, 8. 875822552955556, 8
     . 965602036231074, 10. 764487200846244,
     10. 223157687821994, 9. 377420891180128
      9. 791416642835635, 10.
```

```
7677 540162201636347, 11.584858833820828,
     . 991100479205695, 11. 527515969409293,
     11.66082909085064, 11.760724757108894
      10. 956354784891701, 11.
     537800532007365, 11.006496168142501,
     11. 078127402639241, 10. 250827015738, 9
     . 6820017545954, 10. 104186220434798, 10
     . 276793288741688, 10. 756861657181023,
     11.009983552867784, 9.166435855830048
     , 10.83200500476471, 10.
     220935111444431, 11.969612418313513, 9
     . 14591180060301, 12. 93732709855118, 7.
     548728009864642, 8.10940364418384, 9.
     41492080909918, 9.721348174954347, 9.
     04669583028315, 11.214274269508504, 10
     . 18614513290925, 9. 03212202481072, 9.
     463511168772222, 9.798407409951414, 9.
     108354016354209, 10.28602310747554, 9.
     93542240131012, 9.558521545339294, 10.
     <u> 255667706761198, 8.753716654821815, 12</u>
     <u>. 592851133907542</u>, 8. 697489010660272,
     10. 632612771663135, 13. 391250078892192
     , 9.799401596234679, 8.792444211410665
      11.593795752008633, 8.
```

```
7677 266840255666443, 12.078733780066665,
     11. 017366305962435, 10. 149500145631677
       8.765055108734698, 9.957649589692107
       10.412722304324985, 9.70520947333829
      11. 385932692802358, 13.
     298883432205248, 10.658967885624145,
     . 743689339227352, 8. 76741312162795, 9.
     587977604231229, 10.662327472639527,
     11. 860930794163755, 10. 398007931724052
     , 12.17839147284304, 9.155556138454946
     , 8.88782894500638, 12.492621088175582
      11.069505873110272, 10.
     75928775592485, 9.258921800383105, 9.
     502760436143669, 9. 491727542581941, 8.
     534697603515058, 10.422761432895719,
     10. 66578792713744, 11. 129116926399917
     , 12.633050805643984, 10.
     260095882711028, 8.807184095353165, 10
     . 014242836565424, 10. 021149614647078,
     9. 596102953695292, 9. 280379088670477,
     9. 352552108351292, 10. 84912062134167,
     9. 407869482188033,   9. 953834085272561,
     10. 708332918007676, 10. 247442342917617
     , 9.511110390672005, 12.
```

```
7677 075535391137327, 6.912503549511957, 9.
     689396987758554, 10.827798769569988,
     13. 411557255883704, 10. 057329257206282
     , 9.618291775139493, 10.62789694738831
      10. 367080214591956, 11.
     089727257058348, 10.012756769871196,
     11. 356837006914358, 9. 843614519196029
     , 10. 28010318449038, 11. 6736309240477
     , 11. 354272857169986, 11.
     197773304517055, 11.126070824200893,
     11. 10145640742299, 10. 524982576399765
       8. 622623373111335, 11.
     632516233544601, 13.02056877614913, 9.
     376707422474958, 12.943091205030035, 9
     . 341360680459085, 9. 656310415120316,
     11. 43004984530871,   12. 631867671529575
     , 11. 34382823672457, 9. 53085695626935
       9. 983020203770499, 9. 941810563621875
       9. 97221764691474, 10. 480991757137488
       10. 61438182116293, 10.
     631603951793705, 11.089164781127552, 9
     . 043052147785577, 11. 882166924491386,
     13.454021747636352, 8.952812423647003
     , 10.319109163786235, 9.
```

```
7677 899313232847042, 10.529373626590882, 8
     . 538056206777, 9. 737041706640285, 11.
     00300300674911, 8.881660189790992, 8.
     383077284869026, 11.4007339<u>728505</u>99,
     10. 012326550557518, 11. 177673351653958
     , 8.892524080010759, 9.454252916223863
       9.707139282403716, 9.306386082165012
       9.04853857707682, 11.920410191680626
       9.613306234495559, 9.759709467459759
     , 12.173942651541978, 8.
     857181657578554, 10.633554915525595,
     10. 016847279787802, 9. 839424641139736
     , 10. 289518523880572, 9.
     115365676466526, 9.312008417796793, 10
     . 713729400752868, 10. 257612812998863,
     11. 158826520199376, 10. 861633097055158
     , 10.494851319782505, 7.
     4306988081326795,10.175483063278552,
     10. 556330846190084,8. 889938672998742
     , 8.29968666439824, 9.287321397394587
     , 10. 988140686377653, 10.
     017493126931205, 10.646071463546516,
     . 860253957033896, 10. 714646665673508,
     7. 967186492293981, 10. 408912112469274
```

```
7677 , 8. 692218226914067 , 8. 114121276989072
       9. 276615443982577, 8. 37884615966041
       11. 185164083268251, 9.
     413042846478914, 8.808652508738609, 10
     . 387599035682324, 8. 185706565254613,
     10. 160149913823272,8. 617800964844117
     , 10.57857922799078, 11.
     195554361254807, 9.331743001937866, 9.
     712154789974814, 10.5153080199156, 9.
     187849422726469, 9. 999008943421922, 10
     . 026991166566548, 9. 415674774731645,
     10. 149561429540439,8. 835927910110899
     , 10. 928452425327832, 7.
     658660389690576, 8.05771532627082, 9.
     274371534124617, 9. 473389216989924, 10
     . 170142395208494, 9. 387545419551271, 9
     . 78914472488427, 8. 76550881117121, 10.
     145344276546325, 9.745526290161322, 8.
     882831573486328, 9.634169188077236, 10
     . 424867185645798, 9. 147953857209291, 9
     . 149277672309994, 8. 195270036396227, 9
      865841303447452, 8.877159364452304, 9
     . 497132227516765, 9. 821914545891824,
     10. 248588825157922,8. 609784389058872
```

```
7677 , 9. 104079175659747 , 9. 142881979514202
     , 8.653787807783475, 10.
     117639842463351, 8.679279071996824, 9.
     788676778598466, 9.3387512333991, 8.
     119444904681698, 9.250496393386793, 9.
     33595742086877, 11.732467707465677, 11
     . 406660282205872,8. 674390430420914,
     10. 368230059419993, 9. 336129714091864
       11. 65747911789838, 8. 950597711391863
       9.749466376407966, 9.866205333556184
       10. 191795679806924. 9. .
     578119886179827, 12.598098589539896,
     . 963295633209748, 10. 688075157141906,
     9. 735746565248943, 9. 51814465847547, 9
     . 436758889502416, 10. 553769313883118,
     12. 404926212948542, 11. 065990532145781
       9.817167949381258, 9.085641730680555
      10. 542846574871902, 8.
     019637949326459, 10. 179542122241513,
     11. 098449807418021,12. 652151646628838
       9. 249775574672332, 10.
     651868319732856, 12.31227050108068,
     539989875935179, 7.574551497819623, 10
     <u>. 167193025996442,   9. 734982742244615,   9</u>
```

```
7677 . 340445521446204, 9. 085002497622842, 9
     . 08430277295526, 9. 776228833862872, 9.
     727419529167861, 8.734156794592323, 10
     . 020912074452214,11. 36889277596961,9
     . 19089481483672, 11. 063137900349526, 7
     . 439903755306091, 10. 993051091952958,
     8. 921800982472329, 9. 513479403297968,
     9. 160399928550602,8. 896320461119661,
     10. 730454283971167, 9. 2090388289177,
     10.002332740523867, 8.09447576313196,
     8. 178732327263422.   8. 597526443355223.
     10. 704844663755813, 11. 53740522071673
       9. 249309902220688, 11.
     793531208215484, 10.358797997697588, 8
     . 527735783219706, 8. 389611976434573,
     11. 015974554115036, 9. 1536821095567, 8
     . 344880459847465,8. 292315618910656,9
     . 267158360673179, 7. 448221558756873,
     10.621744690295712, 9.55384405626232,
     9. 004785218844104,8. 94857142067546,8
     . 750335729528137, 7. 932359714626159, 9
     . 028844281246787, 8. 489346890995746,
     . 112405964464594,8. 396712978465638,
     11. 061059207739106, 8. 063008236073118
```

```
7677 , 10.647287203431498, 8.
     548269863837275, 8.892405297364983, 10
     . 454884526161218, 9. 032175223524726, 8
     . 175598354162446,8. 095538699036412,8
     . 60674596497149, 7. 931306983664309, 9.
     51961758114605, 12.187902694147068, 11
     . 013621776096592, 7. 781570579245364,
     11. 260127188620553, 11. 132123775895534
     , 8.717186566107783, 7.898891459308541
     , 11.733581820508643, 8.
     455123785664053, 10.020105822721133<u>,</u>
     10. 336456647229268, 9. 173024336989082
       9. 567827053483425, 10.
     359102246192956, 9.35032528325131, 9.
     874286895196873, 7.594740852482917, 10
     . 177005614289559, 8. 36564658079354, 10
     . 674697977286005, 9. 986248550769345,
     10. 400338583317334, 9. 030631635949339
       8. 526235797456913, 12.
     066390704813386, 9.676434813822755, 9.
     564255714601039, 8.55098416856937, 8.
     251475796610947, 8.357347669985272, 9.
     413890365476579, 9. 943327028315872, 10
     . 972712726415864, 9. 949524991652545,
```

```
7677 10. 283699254133383, 8. 696330368703364
     . 8.44119790759249, 8.705852796418748
       8. 232315493072887, 9. 659575657209745
      8.846687315418254, 9.278721840942607
      7. 575519963314659, 9. 502724491036714
     , 8. 34730995725552, 10. 632503842237195
     , 10.790067218036475, 7.
     996848085716413, 9.325144048814803, 7.
     149031636146569,9.388860878929634,8.
     260723007721797, 9.679379873600537, 10
     . 52764969233758, 8. 05724210820331, 7.
     838050579508023, 10.12476483218072, 10
     . 450862984908255, 8. 769466246613778,
     10. 562079318905763, 9. 793277643044297
      7. 279868237374368, 9. 24268726520125
      8.735512293529215, 8.54779309458777
      9.062899719450865, 8.4619777431429,
     8. 93323108803008, 9. 189829141362901, 8
     . 286266256043048, 9. 302342138792339, 8
     . 430859243906689,8. 012420863928071,9
     <u>. 225470120139166</u>,   7. 76194265<u>6</u>785711,   8
     . 462239543719926, 8. 219161101539068,
     10. 051755339737648,8. 147259254573669
     , 7.457938622394951, 10.
```

```
7677 023661132936507, 7.4561788334566, 8.
     371563205039907, 7.422809781673892, 9.
     551524182960344, 8.836041172960595, 10
     . 548686486648702,8. 284603751480764,8
     . 78645174495945,8. 839631467411762,8.
     720407767192498, 9.561623895131397, 9.
     234921564627728, 10.03876554<u>8</u>552522, 9
     . 004748015211831, 9. 747659349589156, 8
     . 16825660168202, 7. 719735933900249, 10
     . 345086886048685, 8. 170965061837306, 9
     . 635990393789191, 9. 019280123636818, 8
     . 478999766772008, 10. 258197570363803,
     10. 440932973250517,8. 459704974856539
     , 8.562833967592693, 9.08256644139718
     , 7.889433394275582, 7.485177544986501
      8. 332560279421024, 8. 489837200464478
     , 7.890613834555304, 7.624796139612656
      8.809457027506165, 9.564977674661407
      9. 274854044427075, 9. 79991027076178
      8.815413427795788, 10.
     165582055277868, 8.202411078816228, 8.
     342361081126304, 10.912386799744409, 9
     . 534225374183418, 9. 241952237699055, 8
```

923656121865145, 8.484865857351675,

```
File - boston01
7677 10. 222557160876484, 9. 59010275967719,
     9. 363161636210817,   8. 8912<u>17803</u>069312,
     9. 43446110940939, 9. 391944099875058, 9
      . 13701682784609, 10. 114436841970626, 9
      . 138618020450368, 8. 608514573182854, 7
      9122646895724555, 10.349290911996327
      8.053236793069278, 8.62497798429554
       8. 36133582041175, 9. 212781194562883
       7. 767067645725451, 6. 318177167107077
      10. 251105163857664, 9.
     608273124547196, 7.666582746033329, 8.
     886169265298282, 9.083919718538645, 9.
     894799287105123, 8.373374475598704, 10
      . 000158138688503, 7. 5278020687516625,
     10. 645715638210898,8. 342977176140705
      , 10.052569761364822, 7.
     747081130650759, 10.071811986043357,
      .834568407513409, 8.505222899256845, 8
      . 451631216810952, 9. 180858803976431,
      . 473873399728593, 10. 09440085171915,
      . 136897225867115, 8. 840354681015015,
      . 488264461788969, 9. 681514096333885,
```

. 292066845731469, 9. 312777281545634, 7

203681852057254, 7.712000274067693, 8

```
7677 . 774069566106649, 10. 290720118826757,
     8. 672621005090766,   9. 587559454212247,
     8. 119761676611176, 9. 666770709188361,
     10. 069313117225104,8. 945733079600261
      , 8.595332932546043, 8.824577136674533
       10. 427584983246984, 8.
     682418114629693, 8.299616116857381, 8.
     235586461637043, 8.620589076180945, 9.
     470671185768056, 7.496116153595986, 8.
     792083494434415, 7.6584357742923705, 8
     . 432175075306612 . 6. 681203314394405 . 9
     . 051054321206392, 9. 253497382804705,
     10. 021572603160752, 9. 26861078967989,
     8. 25358702007093, 10. 1285641948136, 8.
     667275136469318,8. 387553685220771,7.
     898762098591394, 10.734450107019383,
     10. 918182715542914,   10. 475687689087339
     , 8.600049030670071, 7.368200810885651
       8. 024986732116794, 7. 464948550097344
       10. 1690645070<u>2</u>679, 8. 0<u>38985</u>2763<u>6</u>9857
       9. 571513043099513, 9. 587524673887081
       11. 21131875861909, 7.
     4618950229680205, 8.35252963204871, 9.
     167110171480445, 9.89226653922822, 7.
```

7677 445846015823884, 9.581038417461857, 8. 227639898058062, 8.722592215050854, 7. 359744293401854, 8.393070093987527, 8. 990494447595934, 8.477650746472479, 7. 489424709934199, 9.638119071629763, 8. 756440756121656, 8.5386460233399, 9. 552521887947531, 9.693555036934537, 9. 700965223297615, 10.320398271268367, 8 . 390072943256367, 7. 747383614627201, 7 . 702881215157523, 9. 293688563001414, 10. 133029069693833, 7. 347433290983501 , 8.042317853992568, 11. 629443445441893, 8.724722540969081, 8. 456329705914477, 7.59612422904732, 8. 513933151129967,7. 290954330019169,8. 847792628748866, 9.34460750157619, 8. 95594390036521, 7.782231032663824, 8. 435841669608196, 8.998745749978458, 8. 099621176350597, 8.073924156165344, 7. 69051690072098, 7.964206245292451, 8. 622682934575037, 10.04179561913198, 6. 959244124291482, 8.763554889351221, 9. 556306071325722, 8.149923259628816, 7.

610931471774452, 9.599562689246778, 8.

```
File - boston01
7677 140904389667806, 7.893945902124647, 8.
     054895849050752, 8.398446323332772, 6.
     8420351961448835, 7.964246913744569, 9
      . 072032312121554, 9. 198827398081683, 7
     . 597610972245042, 9. 993256805112857, 7
     . 999668649475641, 7. 398422896677496, 7
      582617233412185, 6.52397960332156, 8.
     67567225949314, 9.686161354230284, 8.
     70259254266603, 10.64422776270946, 9.
     927801132940287, 8.641708976344058, 8.
     121324013630304, 9.482351311958242, 8.
     812549815827479, 7.477227543160642, 7.
     817921238417965, 9.129343426<u>264477,</u> 9.
     470827208953008, 6.841095183655942, 10
     . 781587036424561, 8. 159536084154443, 6
     . 957335900965121, 7. 127895271722746,
     11. 243193552590007,8. 36495018448254,
     8.540340952828942, 8.314320785711423,
     8. 087053174943009, 7. 271535247472048,
     8. 012528558264576,8. 447563586220284,
     9. 948922462184731, 7. 586298757293276,
```

7. 698136601285669, 9. 3389451083015, 10

. 496388599968547, 10. 25589370727539,

10. 03718765066135, 9. 261298730277424,

```
7677 7. 722099166721013, 7. 814474377469751,
     9. 63819504042528, 6. 537288999778936,
     <u>. 684454672845893,   9. 100921533425156,   8</u>
      408181231641917, 9.521969945807205, 7
     . 90999212796474, 7. 876374787221383, 8.
     624510313335218, 9. 307038179122996, 8.
     590536758995647, 9.338582830163347, 9.
     589918145454336, 8.05380858430183<u>4,</u> 9.
     505919360523992, 8.083631717568212, 9.
     867413582816582, 8.13703042434834, 9.
     18076637581037, 7.066077461921763, 7.
     575275491634758, 8.522221717303013, 7.
     919161135382697,8. 274244975748445,8.
     682451080611616, 9.002681021719894, 7.
     049627361651914, 9.236737065270958, 9.
     050872678727188, 10.247571897949596, 7
     . 991377301629483, 9. 004266093758975, 9
     . 351268945463671,   8. 488769277330523,   7
     . 229936369801454, 9. 757958409771462,
     10. 18573897984744,8. 136768448832603,
     9. 662406691087657, 8. 505675171181883,
     7. 55716760239734, 10. 559841068905573,
     7. 748304226819207,8. 974829964962536,
     8. 787489908767558, 6. 510176006116365,
```

```
File - boston01
7677 10. 896934137255784, 9. 803888254121361
       7. 782001473217187,8. 161846125458046
        8. 935340558043205, 7. 829383072100188
       7. 211335183666217,7. 741902100412469
        9.543869519012262, 8.400465017501784
      8. 464396777167778, 6. 583707608674702
       8. 340065351580687, 7. 715389163870561
        9. 308472928617023, 7. 380578882553998
        9. 306889265314345, 7.
      6360225064835685, 9.141344578273525,
      . 7738062412746185, 7. <u>37003388124353</u>7,
      7.705566546496223, 7.6936040677522355
      , 10.021316217564207, 7.
      906390827875757, 7.741228806345086, 7.
      801415154070308, 7.1427149551202636, 8
      . 769409512587744, 9. 362787382521496, 8
      . 870322497636542, 7. 529486310371304, 6
      . 363012375846367, 7. 658255878985851, 8
      <u>. 852902610235539,   10. 18028243185935,   8</u>
      . 418891664629012,   8. 426344165861053,   8
      . 074311980522085, 6. 751133661890178, 7
      . 626339922748483, 8. 445936554356626, 8
```

<u>. 279162057</u>043967, 7. 873489143678648, 8

588353031559995, 7.036558724778356, 7

```
7677 . 54619482648631, 8. 237448133920369, 7.
     428668070872871, 8.55204480129868, 7.
     162210182508817,7. 970781935257809,8.
     624091270907375, 9.001421664152351, 8.
     562571404150027,8. 502705398358797,8.
     662322141806778, 7.687016803044653, 6.
     544800590066349, 7. 470247061998113, 7.
     8153338033717485, 7.759646566290605, 8
     . 693711739206462, 8. 345036509420849, 7
     . 504626271156335, 7. 726353388452678, 7
     . 072065735010909, 8. 418636009050966, 6
     . 575505348181946, 7. 689550535597668, 8
     . 40556234545752, 6. 27626538793369, 7.
     799196157662123, 8.9794972319352, 7.
     469115014046707, 7.978494589542826, 7.
     2141988535783605, 7.792325651682567, 7
     . 279767795243869,8. 158506136560588,7
     . 268582656287556, 7. 010104899897295, 7
     . 7779888697083885, 7. 619176486697359,
     5.810084729094992, 6.458191702609461,
     8. 205791217992918,8. 404105313422141,
     6. 778830069137432, 7. 126737364674501,
     7. 224417252437249, 7. 766168839422173,
     8. 239848011418394, 7. 6842323781536095
```

```
7677 , 8. 474358059673486, 8. 527795971731653
      7. 018649132259121,   7. 705761168394296
       8. 015059871201176, 7. 296194138541679
       8. 297047246904935, 8. 54163010939725
       8.505730850408689, 8.7900930115313,
     8. 881919742737761, 10. 350543975830078
      , 6.705006163740306, 8.458756950802108
      7. 419365826775046,6. 744911345165949
      6. 993814270562801, 7. 214094451337407
      7.697915375417231, 6.757239043528082
       7. 219686074891696, 7. 603289115539646
      10.009576948065506, 7.
     725712366425216, 7.061550409063097,
     069013400712619, 7. 382194991451299, 7.
     95911525683506<mark>3,7.077935939233739,7.</mark>
     640193215095591, 8.389476740692421, 8.
     362119760306626, 7. 899951847714167, 7.
     324354679960954, 8.18052285226875, 8.
     537586595989971, 7.145577070513746, 7.
     734356044615755, 8.113143378182462, 6.
     44108745114353, 6.663285925661447, 9.
     432424838328878, 6.9334099934935205, 7
     . 767214098951027, 6. 67746042540937, 8.
     <u>09031778813884</u>7, 7.85289180537126<mark>3</mark>5, 9
```

```
7677 . 594329123526535, 7. 480213650978017,
      194193064981939, 7.715364178636864, 7
      087776488933032, 8.797809536612071, 8
      177153729063807, 7.6007564036469715,
     8. 341020212084885, 6. 045247094180931,
     6. 6824833<del>7</del>1935393,8. 86045511440596,7
     . 524930116930983, 7. 8000842017285965,
     7.408556923408627, 8.073627629885364,
     6. 464437598414466,   6. 440177083384511,
     6.564140978243329, 7.822702549559413,
     8. 035752873671683, 7. 560514733564374,
     6. 278382049625503,8. 202542599509744,
     6. 331563306482215,8. 255025149129862,
     6. 936146201733096, 7. 021376606849694,
     6. 899520483548427,6. 851496218158734,
     7. 117804961307868, 8. 218079090856547,
     7.703634287181654, 6.683913323532317,
     7. 668194066629321, 9. 44419550821877, 7
     . 888850417299536,   6. 432074609555696,   7
     . 185862129686787, 9. 711270169946062,
     . 749808176383145, 7. 493429099812227,
     . 848448841933495, 7. 548802092348459,
      025278053093621, 6.756357519619236,
      452028930002691, 6.996898135164574,
```

```
7677 . 986757082097671, 8. 195738866971373, 6
     . 876865075468648, 6. 340322004383194, 7
      679408675745914, 7.715494045163087, 7
      063012849435718, 6.9447278459743815,
     7. 202945465458436, 6. 749970642774836,
     7. 598386946108319, 8. 272154385829488,
     8. 907537489114532,   8. 16169796860993,   7
     . 434278906683435, 6. 485212571111626,
      . 637646607201166, 7. 294593010893547,
     . 878662557793844, 7. 125173797179301,
     . 955994157230153, 7. 802632073684373, 7
     . 4048286414367865, 8. 622993534194427,
     7. 490337612459165, 6. 957188225382991,
     7. 529678690175154, 8. 124061314314142,
     7. 613727752638306, 7. 414488571716167,
     7. 13213597584066,   6. 768097555674267,   7
     . 842958178682593, 7. 262433228847043, 5
     . 631827230423966, 6. 955296207692232, 7
      9416538214904975, 6.839732492855828,
     6.637390252606418, 8.323546229501257,
     6. 064896892836957,8. 084907968715987,
     7. 975849246092994, 6. 652451677588117,
     6. 966508745962622,   7. 470911355210531,
     7. 078315160222836,8. 789911512250871,
```

```
7677 6. 795902469209842, 7. 8490889389817555
      7. 086267716375298, 7. 142985677571488
       6. 625144658073921, 9. 407058108332725
       5. 687194805211696, 8. 048646110499238
      7. 49902117584512,   7. 2181186262668104
       7. 167253882523291, 8. 361262244705815
      6.837317268914852, 8.09690363562144
      6. 9694498685122275, 7.
     880252914901119,8. 216727087003159,8.
     096884428532132, 7.1993326225516965, 7
     . 403491467698808, 7. 866853223865616, 6
     . 31819125373297, 7. 17582807821386, 7.
     6157999202932, 8.200848285627808, 7.
     663616953988562, 9.036120983838297, 6.
     305486729270534, 9.922552343<u>49253</u>7, 8.
     577755908847962, 7.839238571308715, 8.
     012164654746513, 7.619586148867297, 7.
     825317293313265, 8.69581452648706, 7.
     1430355941548065, 8.425092647688308, 7
     . 4790167793769955, 7. 954648950889752,
     7. 458249885600417,6. 417792070760815,
     5. 53836914998459, 8. 955783151620683, 7
```

. 687271200835521, 6. 312585874976757, 7

218125927558994, 7.411919670577388, 7

```
7677 . 34529429692602, 8. 191921692514567, 8.
     320969187438303, 7.610722576501569, 7.
     <u>65844817759451</u>9, 7.43372684366562<u>8,</u> 6.
     797267348773708, 7.688170441163952, 7.
     942796562478269, 7.479170123120949, 8.
     958850737326655, 7.90020597571559, 7.
     29947672982703, 8.177045432406683, 7.
     844057402005506, 7.394777934248602, 7.
     552609674332681, 6.122918309072961, 7.
     290248540163779, 8.872052529278923, 8.
     01951241530132, 8.65592707938085, 8.
     22533461774466, 6.422524788800408, 8.
     554303341974784, 7.13853699061154<u>6,</u> 7.
     776410447923761, 9.067826852709885, 6.
     2597770056119275, 8.550711559437376, 7
     . 066791354318152, 8. 421474072955341, 6
     . 943115212968998, 8. 345418779473556, 7
     . 853897384076665, 8. 333339836575298, 7
     . 95079145342942, 8. 95737439264823, 7.
     7259201586431026, 7.24381617200633, 7.
     349658203567883, 8.300275063736152, 10
     . 206137435355053, 8. 720446350035653, 8
     . 298468499729877,6. 667831874115179,7
      . 143862624655567, 6. 931101732578809, 8
```

```
7677 . 4112963838843, 6.610369276336103, 8.
     433340887536206, 9.308092783848199, 7.
     589378224068751, 7.832905128644347, 8.
     508470030391917, 7.776816616301935, 8.
     356295089603577, 6.602562763373549, 8.
     279755449147416, 7.45576820137331, 8.
     0796095904182, 8.60682319709022, 6.
     0875148182682945, 9. 02785106635315, 7.
     561343775076025, 6.853394245584683, 7.
     215810554315431, 9.017901547553, 6.
     948388749970002, 8.734125875467118, 8.
     166723539401135, 7.6927723367885905, 8
     . 427122842416674,8. 150772820685301,8
     . 317362498941804,   7. 48903654474223,   8.
     960877792384972, 7.397924609966691, 8.
     175108626900073, 9.338831626962952, 7.
     548679676587367, 7.046269248513615, 6.
     797695784007802, 7.73769509386352, 9.
     438117623698231, 6.750081054935515, 6.
     30945822181347<mark>4,7.59780650389821</mark>9,7.
     777096948387453, 8.058360468861489, 6.
     117457679181645, 7.146745481358224, 8.
     61671970909225, 7.430480688349013, 8.
     614551249303316, 7. 479166193274152, 7.
```

```
7677 794318374834563, 6.8100278536232635, 8
     . 156249059612168,8. 116658641826996,6
      . 843993987461362, 9.87143691553051, 7.
     4142211516944245, 7.981321771816573, 6
     . 6066398436070966, 7. 477036056872861,
     6. 980057828751142, 6. 53584179900379, 6
     . 6923529131124635, 8. 512514731463265,
     7. 1207910071216505, 8. 630227221793065
     , 6.784334861826232, 7.155562744052048
     , 7.745625829549027, 7.901542794962785
      , 8.550799952941045, 6.588804577526293
     , 6.389928812582057, 8.570399821727268
     , 6.174921319488401, 6.88812033384577
      , 10.371080273814245, 7.
     746208179107761,6. 5299224823990105,
     . 613295044323239, 7. 6230513864995<u>5</u>3, 7
     . 378821110393241, 7. 408267073586998, 7
     . 240095548216403, 7. 323736252799492, 9
     <u>. 942862211735257</u>,   7. 259<u>1</u>790946275<u>4</u>5,   8
      . 591332118208564,8. 215237105224892,7
     . 96981216141314, 6. 354141852434943, 8.
     691211610386615, 10.398332282116538, 9
      . 408993524548254, 7. 72600528588605, 8.
     232584155380911, 7.588668598848231, 6.
```

```
7677 825048895258653, 7.051710244671848,
     649711585266302,6. 148085638465527,7.
     278156559533748, 9.215175197589508, 8.
     248033710308489,7.437542110773801,6.
     2852050054922195, 7.453289883055554, 6
     . 628658864520283, 6. 87337563207644, 7.
     768588399739457, 6.756000359361017, 8.
     91427511327407, 8.392640641599248, 7.
     861782801040555, 7.870584432554688, 7.
     63769800965631, 8.960275179830498, 7.
     645229770672211, 8.279542051970774, 7.
     340805033043073, 8.892501749859505, 9.
     0236763175427, 6.5313763972775485, 6.
     643736683962515, 7.6434206416363315, 7
     . 8266404439052195, 7. 466422928376095,
     7. 7385364715528935, 7. 286909051723893
     7.783766229824385, 6.
     6013611507120515, 7.141364714678596,
     . 576139337138126, 7. 554213370332039, 7
     . 506280419073607, 7. 958665472804208,
     . 59527484846558, 6. 642427510890429, 6.
     764793104062509, 8.208784467295596, 6.
     291736267299475, 8.432799689171853, 7.
     45459273429847, 9.028699408374704, 6.
```

```
File - boston01
7677 778045583435626, 8.01885382531228, 7.
     990067638479888, 7.8223669772546724, 8
      . 073717055305977, 8. 471777501121025, 5
      . 726167326003036, 6. 358832231985157, 9
     . 31383778067196, 7. 157254971955952, 6.
     580533933344271, 7.824373428297486, 7.
     308007297132037, 7.496938398378921, 6.
     027194156181702,8. 542153946017333,7.
     201515882376916, 7. 597257439935171, 9.
     130635412115799, 7. 201261377186967, 7.
     <u>384183525670054, 5.912454391780653, 6.</u>
     656697924292124, 7.0495507532598065, 7
     . 3743124569163605, 6. 880893832758853,
     7. 491204341498691,8. 417130737481841,
     7. 870825454546571,10. 159629820318369
      , 7.647783227011146, 7.2736265578<u>13709</u>
       6. 94870315616714, 7. 959424571725237
      8. 441464461155535, 8. 375248222897296
      7. 842668636664517, 6. 359723306661789
       8. 940903476148199, 9. 212188516977033
      7. 798221495406177, 7. 872387759087625
       7. 318845273540485, 8. 09034295716891
```

8. 230682967986116, 7. 786293109504062

8. 181659403231121, 8. 419533891205448

```
7677 , 7.534821613654263, 6.488192586337819
       6.856816158206101, 6.729234527139103
       6.609257030782316, 7.547308344590037
       6. 115359492346229, 7. 333710466006961
       8. 09262755153349, 6. 669928993603024
       7.69011950419045, 6.35099673344993,
     7. 900452521563315, 10. 046749584261478
      7. 315610454547516, 6. 438786074842093
     , 7.766950687756848, <u>8.70548288704072</u>
      7. 9004294466308025, 7.
     549142344448219, 8.7788531005198, 8.
     857668166928248, 6.337740611734774, 6.
     547136867747588, 6.277396398432114, 8.
     429919053895555, 7.111720228435085, 9.
     418673930153389, 7.30424715933785, 7.
     119439369384718, 8.797725482621798, 9.
     317428002047466, 7.084642771965948, 7.
     96433582320671, 7.857213116282649, 8.
     013158748024388, 7.6146567775738125, 8
     . 602481213147426, 7. 2453538227376555,
     8. 994836808727253, 5. 703024330799794,
     9. 383657566165038, 7. 492687736133304,
     7. 25754948001897, 7. 262125048013663, 8
     . 764117187759824, 7. 5531<u>5</u>92310028<u>55</u>, 8
```

```
7677 . 962165568266121, 7. 130246466527414,
      965450429694941, 6.370623136083408,
      03852478712336, 8.400405296231202, 7.
     898465941934025, 7.4543912787186475,
     . 84301091569127, 8. 604707294942425, 7.
     059172450204382, 7.482697920902595,
     496051374972789,6. 520432129732964,7.
     307242996552411, 8.607896987498728, 7.
     315509575439312, 8.448436028448052,
                                           8.
     399546753142271, 9.025829482373808, 7.
     833575169922028, 7.513654976068266,
                                           6.
     633497565892458, 7.303042470855241, 7.
     010463659977396, 6.14853360409338, 6.
     695533852828176, 7.550608866724067, 7.
     21503559502285<mark>7,8.592332800475436,7.</mark>
     059963783612561, 7.602088183441398, 7.
     475536351602513, 7.700245892669394,
                                           8.
     459051628230895, 6.240356068862112, 8.
     433448655686512, 8.682418440886694,
     037917509167556,8. 487695211965603,8.
     129423761515426, 7.470049239533605, 7.
     8826359964376636, 7.602512891078512, 8
     . 715384806641854, 9. 538391157569531, 7
     . 161031389937682,    7. 6656<u>5</u>8038467076,    5
```

```
7677 . 987165874833293, 6.6844737044428895,
     8. 335730294325034,8. 498442212863603,
     9. 099600295902405, 7. 202229790643273,
     7. 887701498742443,6. 8286551750112245
       6. 872323670992541, 6. 453688529991882
       6. 9294179570933245, 6.
     643328768550058, 7.94809453037132, 6.
     487646719988654, 7.2639959135291745, 6
     . 0635262696366565, 6. 768458198836713,
     7. 211088086060326,8. 778991356722711,
     7.661433536570876, 7.848121684402135,
     6. 237226993122337, 7. 542003885511274,
     6. 74883143377747,   6. 8720990925012355,
     6. 590260166132782, 7. 949365782663918,
     7. 938716465474651, 7. 253181844303851,
     8. 763107146271981,   9. 183842100964242,
     7. 746782129394012, 7. 946639049163913,
     7. 366568025789763, 8. 623005350307784,
     6. 672644322317082, 7. 529012508805692,
     7.439129300254049, 7.594253088298597,
     7. 577652423374424, 6. 91427300367562, 7
     . 285939959180613, 8. 442329472432565, 7
     . 30915033558943, 7. 01945853750034, 6.
     833724867079649, 7. 7240530102983715,
```

```
7677 . 433054388123031, 8. 242974462523918, 8
     . 635503059570265, 8. 476536479158668, 8
      891702111660512, 7.6261147308644865,
     7. 6689697197716304,8. 445714454532776
       8. 901920922031344, 6. 524001548164769
       8. 365775725420784, 7.
     3931628838412164, 9.246200336068407,
     . 928858417475555,   6. 282386911173723,   6
     . 764667178824221, 9. 155300685495783,
     . 31152559876811, 6. 712847745824525, 8.
     177967145347004, 8.730816917891842, 8.
     230698213488694, 6.233765566<u>86572</u>6, 7.
     109512450156197, 8.35680534448417, 6.
     69934379796125<mark>6,7.01350200729842</mark>5,8.
     82566864202635<mark>2, 6.955000869998991, 6.</mark>
     353806049277539, 7.060546033522662, 8.
     080804229151722, 7.942586657063511, 7.
     193467704135198, 8.796256657355341, 8.
     378477893746675, 7.727331759390816, 7.
     40987431744673, 7.430633640879817, 8.
     777868955866102, 8.711751246969028, 7.
     766293854167218, 5.760835559006446, 10
     . 379187042868175, 7. 740727161844449, 8
      <u>. 9502</u>76154851766,   5. 839429331268689,   8
```

```
. 223159707367605, 7. 621323210536142, 6
632901299479576, 6.888584045433777,
 220057286714253, 8.576354512489248,
 352376106722805, 7.510385784940454, 7
<u>. 7883</u>41811935968, 7. 309187752589722, 6
. 632459612638219, 7. 045925644529124, 6
<u>. 9681</u>46446688626, 7. 972594638357959, 6
986345324353906, 8.341034137058553, 8
930858555962057, 7.736714797123298, 7
. 5509274338052, 7. 259991053088162, 7.
02303140598923, 6.909018143042691, 6.
596511464369924, 7.823658509151116, 8.
929694262820501, 8.31680433078447, 7.
901292873240846, 9.423599479368228, 7.
061352602837625, 6. 568687949756351, 6.
217535398323839, 8.496545900870403,
126774849906425, 8.204003785785876, 8.
868348945405092, 6.828994083699796, 7.
620059552945588, 7.894204916230665, 7.
146752792246201, 6.604533090864542, 8.
027639306366629, 7.556212862209639, 6.
497954598890369, 6.953811815279556, 8.
<u>373004370060498, 6.166018784230707, 7.</u>
371049438098636, 6.875858184353855, 7.
```

7677 003689745262311, 6.494574464142507, 6. 8489459926498935, 7.810729093226855, 6 . 605128178286479, 5. 919768816177321, 7 . 301506066885157, 5. 878862226156997, 6 . 424687701482153, 7. 385476363148114, 7 . 911206979131551, 8. 267984080240822, 8 . 294489593328706, 7. 696276062413266, 7 . 662223532472971, 7. 855929359932064, 8 . 647603266748481, 9. 181973605702167, 8 . 13348462707118, 7. 05946655779062, 7. 7843239292640805, 8.767661158145396, 7 . 432327735534763, 6. 8991403461609835, 8. 544718462939233, 7. 947305077369737, 8. 257523727121736, 6. 87487880364291, 6 . 688695559929768, 7. 407160670395606, 8 . 421544627139443, 6. 593782946790335, 8 . 529674984722314, 7. 484523588658855, 9 . 344477517686023, 7. 781352663187789, 6 . 294206383058531, 7. 8453147935424425, 9. 39543559160026, 7. 72156229698252, 9. 347738019453114, 8.474342455435833, 8. 932462647234324, 7.940559819571374, 7. 720529461792748, 7.682726602436219, 8.

11006864176446, 8.279247013777033, 7.

7677 843177160611463, 7.283358594581439, 7. 488810993200485, 7.242021256556082, 8. 59576281379251, 8.61268844250186, 8. 01123685954894, 7.144443807218097, 7. 411186789580543, 8.576566513108764, 8. 799128548648705, 7.5921030959846805, 8 . 665413578228316, 7. 890216095897804, 7 . 212828137188135, 7. 481832755977524, 7 . 490103627136986, 7. 809209867896679, 6 . 348909671830688, 6. 839462069165965, 7 . 596903649461527, 8. 640007463402053, 7 . 704486240174379, 7. 011194075593269, 6 . 039245897771404, 6. 558594937294998, 8 . 017312380551553, 7. 172772014842314, 9 . 46428700792531, 8. 607053957487407, 7. 610447468034254, 5.73998928586765, 8. 142590812485285, 7.882308469099157, 10 . 127765061316476, 8. 496268848147555, 7 . 87990299762218,8. 957999864229846,6. 82603653887108, 6.616356580988173, 6. 379221045195872, 7.533523526354101, 8. 146273701552635, 6.00612759959218, 7. 033692380592181, 7.654525306387213, 7.

6582218978796215, 6.689237555852246, 8

```
7677 . 036394254341952, 7. 217393844120274, 7
     . 8502481330659, 6. 110471335726995, 7.
     736861450384276, 8.310946483730163, 8.
     214149621248984, 6.8488333151436445, 8
     . 01363039607234, 7. 557273183813774, 6.
     5861155846539665, 7.177834917148201, 8
     . 818139214264718, 7. 740688737331898, 6
     . 820430929815806, 6. 677622628285789, 5
     . 826738095966286, 6. 996788512811572,
     . 605634001755493, 7. 928275013855736, 8
     . 9493373938758305,8. 747127571342162,
     9. 849389209466821,6. 853498452957201,
     7. 648383034641159, 7. 773632371019652,
     8.649118647855872, 7.279074187618291,
     7. 161789370026013,8. 596594389009033,
     6. 748684263081742, 6. 968612555748907,
     6.726847066967849, 8.242636582430672,
     6. 5096603171559675, 7. 98515209214237,
     7. 038893507730112, 7. 857931765978551,
     6.879757430531292, 7.5888674296092695
      8.066614503830948, 7.256062002742992
     6. 545944143005938, 7. 737451678828189
      7. 729597445981052, 7. 241612930415954
```

```
7677 , 9. 294347435328245 , 9. 085806279728656
      7.834054055228691, 7.731242737902946
       8. 519472575778194, 6. 88186676214354
       7. 374790374708619, 7.
     8109838578723165, 7.632154919414697,
     . 359002755522359, 7. 735091870783283, 7
     . 372385927029069,6. 781961210740978,6
     . 952005930729325, 6. 4637706154271175,
     7. 4503016279946905, 7. 073990794527273
      , 7.685176030032037, 7.
     1048969174317165, 7.368595580936585,
     <u>. 45584709061</u>1886,   6. 171626930266342,   6
     . 619797954433842,   8. 779944971988076,   7
     . 754855452445638, 7. 75035620030973, 7.
     634025484415769, 6.820842164<u>219718,</u> 7.
     770292265311852, 7.8086754522825546, 6
     . 2206285228670195, 7. 197060833036346,
     7. 945011788108401,8. 840322287828192,
     8. 384565316486654, 8. 82244731324376, 7
     . 465958598228431,   7. 872382270293339,   7
     . 360692068888307, 7. 290092440212474, 9
     . 309003237969366, 7. 056939120632207, 8
      . 799840702730066, 7. 736952425894723, 7
      052573732547347, 6.054207048918071, 8
```

```
7677 . 091630414543506, 6. 975086460910714, 8
     . 239035698651529, 7. 0479553498719865,
     8. 379933312950488, 7. 85041910354567, 7
     . 498612486172018, 9. 987440230307564, 7
     . 145315081711524, 8. 105162251475425, 8
      301223961561456, 7.63820909863286, 6.
     865364672598824, 6.558664035132795, 7.
     7415210743068545, 8.416546600890971, 8
     . 275164246928211, 8. 624816738045991, 7
     . 4140917686486025, 7. 9109071135151865
     , 7.122163319366266, 7.31760441334255
       6. 7999052322316835, 6.
     367084328235118, 6.166506947378625,
     323166513590621, 7.426226136023784, 8.
     551196178046542,6. 379256568087882,7.
     935253802467795, 7.224599368801058, 6.
     797898407875569, 7. 225569512452872, 7.
     6421243871328635, 8.524014193207117, 7
     . 843606125459583, 7. 844610675569658,
     . 51409177403701, 7. 710545164881845, 7.
     618915383660757,8. 349580770675612,6.
     662243987753665, 9.632001510714598, 6.
     716748613322113,8. 454151497905837,7.
     811794620549347, 8.844909369760991, 6.
```

```
7677 843836354766467, 6.693814478422466,
     520450468033829, 8.157883706845736, 8.
     361510624872642,6.611282702200922,7.
     314080333746624, 7.625266860513126, 6.
     916001322837806, 6.747680870741145, 7.
     699459492975714, 8.458622179763974, 7.
     2375144840394015, 8.809237480532643, 7
     . 989102444781608, 7. 807858520247988, 6
     . 7820523442129605, 7. 138787086534057,
     6. 955154240684982, 7. 1131985423734685
     , 8.22894070613495, 5.6803294549416465
      7. 6718122457<u>20311</u>, 6.
     6806222093363665, 7.284058709447229, 6
     . 169052465781339, 7. 7255739560437275,
     7. 946001156195767,8. 515981249026838,
     7. 184540069509217, 7. 769232103330063,
     7. 0187335619616436, 8. 916585990149908
     , 8.858556030335441, 6.125563282715647
      7. 469694987908237, 7. 634362465825982
       6. 927189317650101,6. 343666421370609
      7. 264743122892114, 8. 406192270594854
       7.007703753816823, 7.
     1645463568507335, 7.569856953694725,
     . 618358702113385, 7. 359949907651258, 6
```

```
7677 . 978187655516822, 5. 442402821207194, 8
     . 600313101851903, 5. 855199955565272, 6
      4580270033502725, 7.852496325785162,
     8. 16008644281157, 8. 155984194470633, 7
     . 58176923462481, 7. 326354720644169, 7.
     084382768754988, 6.757933203280895, 7.
     178181801233499, 7. 394307709330745, 7.
     601830948247998, 7. 382003477114273, 7.
     676381151742611, 6.59506789172766, 6.
     843026855043583, 6.001011647676167, 9.
     737055720928653, 8.270376845409995, 7.
     5984253086172755, 6.5695764472241, 6.
     56633866755955, 6.249689561294697, 6.
     751616507491829, 9.854175446572318, 7.
     839850271818438, 6.3257290305737, 6.
     88874146000888865, 7.162245627896335, 6
     . 752687319144376, 7. 5835447743212105,
     6. 488454979639673, 7. 69921743316178, 7
     . 2204675409631465, 8. 052733309128705,
     8. 336174679983511,6. 701548198428316,
     7. 403605534196269, 9. 376765084340477,
     7. 429959784351266, 9. 292827553055234,
     8. 153946979127063, 6. 623086324786254,
     7. 490722822331054, 6. 699605621420562,
```

```
File - boston01
7677 6.8276707734854964, 7.9471928600925414
      7. 174919807504943, 7. 733336938054938
       7. 88163676498106, 7. 216065716817283
       6. 206104060306268, 6.
     9702566356481785, 7.799175268356276,
     . 926156132582909,8. 871351493032355,7
     . 194084264176549, 8. 834215455010948, 7
     . 369431473337829, 9. 128995694612202, 8
     . 16339753803454, 7. 843101389267865, 7.
     913698659961807,8. 124642872588922,8.
     312161243367859, 7.797160021660867, 6.
     694165031976375, 9.20832073725414, 8.
     384603636183606, 6.888078742721133, 5.
     676937337999373, 7.832100184709295, 7.
     65237643106065, 7.564548944172106, 7.
     801900191203728, 8.620816998437462, 7.
     104426310158367,7.820317213011231,6.
     277041047719241, 7.2443054504807884, 7
     . 618617723600783, 6. 807686867728691, 7
      . 410738333090909, 7. 558360254801464, 8
     . 145477141389168, 7. 179344175769818, 7
```

. 712190046399002, 8. 262511825413895, 8

. 954032437351097, 7. 192139395250256, 6

889877939371871, 7.237195141913352, 8

```
7677 . 026663570581206, 8. 60778309760079,
     369990291794756, 7.754608520413331, 6.
     825107229014299, 8.520174749864513, 7.
     13847103945611, 7.121065299208319, 7.
     329218071680689, 7.370018417252107, 6.
     844575852432487,6. 420987636312242,7.
     534414340098945, 9.995425617731762, 7.
     57587973030728<u>1</u>, 7.75695547895165<u>75,</u> 9
     . 07371667442676, 5. 826259946675492, 8.
     334325168154926, 7.562212525137438, 8.
     676673310459952, 8.150357913675691, 6.
     896929894438469, 7.440952388125677, 7.
     110402547169027, 7.048474657277205, 7.
     45456872119254, 7.111853262957404, 8.
     695367892829257, 7.50876486338329, 7.
     020620343116784, 7.220698229668679, 6.
     541073218956821, 8.715739294471387, 6.
     201984417327786, 7.120766072819476, 5.
     9004<u>1953085376</u>75, 7.449361387421103, 6
     . 690369808267882, 8. 962882162985787, 8
     . 414610994858638, 6. 526630327797527, 7
      397517684812517, 6.2085550916453265,
     7. 991576392584172, 7. 514563733210135,
     7. 52807665904609, 6. 901482493515723, 9
```

```
7677 . 244648257276221, 8. 607653366153823, 8
     . 16592719163688, 7. 68768551216775, 8.
     716536065557793, 6.059425597589452, 7.
     332204207547309, 7.2085684135602355, 7
     . 897232345014165, 7. 9329990259265015,
     8. 460691156586627,8. 129511511362743,
     8.067097032033253, 6.706605176438488,
     8.505348900892416, 6.500856312435847,
     6. 680720322641426, 8. 10116038233872, 8
     . 272736925089692, 7. 915450344144745, 7
     . 826608863039282, 7. 285981993188061, 8
     . 998204629856735, 9. 278005346056108, 8
     . 95975575727575, 7. 733123812328551, 7.
     526048075673012, 7.906296635190769, 6.
     4874964911871285, 7.727261733898068, 7
     . 921286875249431, 10. 639734063724246,
     7.660183701352808, 7.576048553359029,
     7. 076834765750188,8. 559485047963381,
     7. 154607114408038, 7. 272286151584826,
     6. 6674563582098525, 6. 515512195164943
     , 9.003846905502742, 7.32533531366118
      7. 947861013028644, 6. 612000268679285
      8. 631727239295794, 7. 555746325213843
      6. 224442871731501, 7. 424736114478333
```

```
7677 , 7.947498799846637, 8.23661158328455
      6. 049649816917561,6. 730786246965544
       8.654704519100603, 7.597593816810348
       8. 957136626583134, 9. 28212234848424
      8. 15246304491356, 7. 0983947552394575
      8. 317758444292995, 7. 066346766409859
      7. 3963367975902266, 7.
     858142345405584, 7. 225195846321413, 7.
     1235599787242645, 9.084415081484767, 8
     . 107528440723478, 8. 1282147564017, 8.
     95964477970135<u>1</u>, 6.42929576314270<u>7</u>, 7.
     078282819812881, 7.083171307856085, 7.
     771632924353006, 7.18723292136709, 7.
     772679030710699, 7.232528916822498, 8.
     219778043197774, 8.55530217409872, 7.
     291069739374214, 6.543048641630001, 7.
     9424984233667235, 8.737373682736612, 6
     . 780571293904686, 8. 391870897251755, 7
     . 618689638911386, 6. 527374373869999, 7
     . 880073701634126, 6. 6307296802754, 6.
     075285955848339, 7.572996136573815, 6.
     641282486103637, 7.910472486041279, 8.
     745164743887013, 6.895165933544052, 6.
     880432428590284, 7.8401994823302275, 7
```

```
7677 . 528885811844108, 7. 5154325597611, 8.
     18959212524603, 8.19144276236602, 8.
     761379472980558, 9. 150199016919446, 7.
     701694476715183, 7.872259363301398, 10
     . 9338023902462, 6. 98002362915606, 7.
     796688661486741, 7.296497714039711, 6.
     560061726407739, 7.56285139666899, 7.
     680015934694662, 7.6260376943523305, 8
     . 491308841173863, 6. 739014283053277, 9
     . 078422283609585, 10. 002788511223098,
     6.841463250826018, 6.461339562300927,
     6. 616822428378527, 7. 394332693088165,
     8. 300287100552774, 7. 603825188273616,
     7.849927707353244, 6.909751363583024,
     7. 182641907742149, 7. 391386249117069,
     8. 851719484240647, 7. 265852120638632,
     9. 014540427240425, 7. 693365150191836,
     7. 417523032740543, 7. 171578673017283,
     5. 845936121955376, 7. 210625402698576,
     7. 935995822351415,6. 458227789438915<u>,</u>
     8. 153101926248508, 9. 571442565681764,
     7. 876572539562781, 8. 495704201721924,
     7. 746695066384118, 7. 94994097892714, 7
      . 0197815533392935,   6. 349158211758263,
```

```
File - boston01
7677 7. 273562026835816, 8. 126869927987963,
     6. 0381108182871674,8. 154186874720335
       7.433997163093496, 7.334278403420935
       7.711225391541472, 6.
     2479209602801795, 7.790165644312053,
     . 358079682931812, 7. 602141355213366,
      <u>. 3065</u>48782915522, 7. 743271482249162, 6
     . 530663044460049, 9. 636281181784238, 5
     . 874702263911812, 9. 188713509231897, 7
     . 242930346598197,6. 33082661964576,6.
     731459273642431, 8.017084351265025, 5.
     987229726631944,6. 284182317116681,7.
     163435636659155, 8.38667161730421, 7.
     546212367598117, 7.386872911600875, 7.
     934810080395394, 6.326159472805059, 6.
     531260022437978, 8.691617753114494, 6.
     620472781060281, 7.42489589589299, 6.
     634734797403908, 7.985033730604331, 6.
     82071199800946, 8.8411934017766, 7.
     192755293181806, 9.191266523426162, 7.
     550589210108707,8. 251761947992048,7.
```

703448063079787, 6.850248465228007, 6.

690733410625635, 6.9959085998889465, 7

. 632059303968684, 7. 318534673921095, 7

```
7677 . 564166542915368, 8. 633071462436357, 6
     . 167913299965046, 6. 0425666995092815,
     6.606145170820017, 7.320275442519055,
     6. 683086300782006, 7. 8132170582703395
      7. 482517734031559,6. 410339812376182
     , 8.222160159249793, 8.723229204538068
     , 8.012571336315144, 8.568218471834165
     , 7.561993206802168, 6.828939393116594
       7. 1890309927264235, 8.
     376772964701933, 8.301241704923081, 8.
     46444880925465, 7.037988802965949, 7.
     106924647517249, 9.099004355746526, 7.
     5258939926838355, 8.214192638456268, 8
     . 49325004819746, 6. 746034696006184, 7.
     380287278178306, 6.87011535691772<u>0</u>5, 7
     . 331548399231382, 5. 952868638392942, 7
     . 670390315100136, 6. 987234689871962, 7
     . 044464703314814, 7. 089305086032525, 6
     . 399329235679225, 10. 284057100859958,
     7. 652432695630903,8. 805803437720142,
     10. 187177758467826, 7. 230875244819712
     , 7.421159978990584, 7.431377717769552
     , 8.012315865271601, 8.392398072654618
      7. 99999421152168, 9. 168654120005321
```

```
7677 , 8. 348973445478977 , 7. 611261155214103
      7.778914696660943, 7.050149322663298
       7. 054517334828805, 6. 926954236931107
       7. 214567544659594, 6. 60343346728629
      7.566489579876879, 7.661676088953535
       8.716622740860695, 10.
     136650135642604, 8.236<u>5</u>72862040516, 7.
     7255839002390765, 6.197990872911625, 7
     . 479840930493624,8. 470168394200941,
     . 702590402065785, 7. 680582996307881, 8
      . 111849173672796,  7 . 457424305540858,  7
     . 774226889152645, 7. 170079752387646,
     . 92107975639795, 7. 9720463413203095,
     . 796090076582351,   9. 718310878741852,   7
     . 670905426190734, 7. 108517448968563, 7
      097070785498841, 7.631963281070485, 7
     . 372717742211309, 7. 599291097914841, 8
     . 58521779698115, 6. 781548538444212, 8.
     168621144427604, 7.646162623591468, 7.
     881451668754082, 7.51351945245229, 7.
     061158680325322, 7.675398414718108, 7.
     569619630512438, 9.089303573328229, 7.
     21141615740655, 7.211249873365042, 8.
     466220347873936, 8.162528683757266, 7.
```

7677 394675797906823, 7.006783923128441, 7. 22767255328388, 6.967010536430052, 6. 8196869841301035, 8.830314801573385, 7 . 751506250340134, 7. 662154595549262, 7 . 269390578609502, 6. 1180509856610845, 7.614088439350896, 5.543915630032773, 7. 863974452756876,8. 318443983331923, 8. 101434881842174, 8. 34650662218454, 8 . 7936479897691, 8. 051491893850981, 7. 400938407555453, 8.284593639728085, 7. 81806864051996, 6.768675468654456, 5. 945180810272878, 6.635200052438505, 6. 753722574688702, 7.37728280474896, 7. 800325761546292, 7.923600058252966, 9. 347462736785227, 6.736174139075973, 7. 323510533884952, 7.957780252669249, 7. 940437920691428,6. 953014457927031,7. 797195706205103, 7.383874166860669, 6. 691638331110632, 6.1392866524380425, 8 . 779341978185316, 8. 296510714126445, 7 . 285308335956774, 8. 920085436419436, 7 . 500450787898557, 8. 958360570134024, 8 . 438326587710218, 7. 80236162046899, 7. 152879365088401, 7.159689720939188, 9.

7677 0513938189291, 7.706402616235125, 8. 424043724780482, 6.432639949831062, 6. 86766745948201, 6.949647307026866, 7. 953878818466198, 7.323818565522185, 8. 043484625801582, 7.6473759010480284, 7 . 492385593176627, 8. 28608508744845, 8. 763958120493697,9.084501056848296,7. 417938072245925, 7.539169760311351, 6. 903035955163348, 7.331718688409764, 9. 228590858979121, 7.1032022440765665, 6 . 8847057293443115, 7. 214124108246605, 7. 54769309534008, 7. 414004825586136, 7 . 655420865990429, 7. 826583853447032, 8 . 010768725037943,8. 453122478520537,8 . 935970684323149, 7. 653742414509918, 9 . 860739149084033, 7. 6690530275043685, 7.658425281660476, 6.044602822224053, 7. 054562545044134, 7. 769250556780458, 7. 167816052864949, 8. 303648641604019, 7. 471389549066408, 6. 020907555571282, 7. 738119030884545, 8. 013533051907094, 7. 09283270924453, 7. 641371013210285, 7 <u>. 0416237916739</u>73, 8. 997435352750607, 9 405336583730975, 7.028857380244016, 7

```
7677 . 170421962029424, 8. 28418094528718, 7.
     969721885657532, 7.6703405712411135, 7
     . 834456015666572, 8. 263634579838614, 7
     . 700885449400627, 7. 306943246823716,
     10. 157543967751895, 8. 544337405508886
     , 8.315378128559598, 7.438647933050575
     , 7.135290232697508, 9.424844995002628
     , 7.932423830770487, 6.794341335724751
      6.869385863974368, 7.374969269838126
     , 8.064730934314314, 7.681664821164158
     , 7.641682590862546, 7.950031352855103
     , 8.566175360428659, 8.128320206798636
     , 7.040556278760219, 6.951101805357<u>3</u>72
      9. 346393010933701, 8. 570413461041523
       8. 2438075708531, 7. 743220361024602,
     9. 211503548518792,8. 450885715499382,
     7. 9493233781111865, 7. 223464013622272
     , 6.944743674052389, 6.272439064994316
     , 7.388569921900983, 7.942730992824854
      6. 886603961419026, 8. 399398416926617
       9. 02861904276783, 7. 021404887869632
       6. 043838514263046, 6. 984542882571649
      8. 080285118091217, 7. 735792567486365
      7. 979641952750852,8. 475727159172388
```

```
7677 , 8. 79416237822258, 7. 227691736106902
       7. 099851521176081, 7. 885181229180965
       6. 286315878109297, 7. 615042358729124
       7. 705333259452607,8. 318159947823444
       7. 903493712930119, 7. 578184073185404
       7. 980283404282372, 6. 61213458359426
      7. 303681642278429, 7. 604545067015447
       8. 536193627691121, 9. 643386879941627
       9. 45974080259955, 7. 635919051273689
       6. 727335522418421, 6. <u>565595</u>017867<u>191</u>
       8. 781209298331671, 7. <u>027990202416</u>577
       6. 518082003106274, 8. 18105700990364
       7. 59813039378485, 7. 292813955076708
      7. 976218671621553,6. 716293326103282
       7. 259324308519393, 7. 424561996578063
       7.066510309744914, 8.40095914775742
       8. 723705340096087, 9. 261978153842891
       6. 916364605950866, 7. 247686905757561
       8. 301522288898196, 7. 365442134278478
       7. 394658525661788, 7. 988801669041069
      7. 234952566424391, 6. 784635558586002
       8. 076502549020868, 9. 883760315714975
      6. 667854769680153,6. 625482183491852
       6.620333675998652, 6.975900791008775
```

```
7677 , 7. 381436285957832, 5. 472457707112787
     , 7.18549415423036, 9.42098595557198,
     6. 655721644129915, 6. 456593166563902,
     8. 212125068294005, 7. 104387943589651,
     7. 742673061949549, 6. 528993517990821,
     9. 395730632746552, 5. 4856569309352725
      6.495504890063968, 7.656254095374246
      6. 698544336915385, 7. 577639730122437
      9. 178873583997365,   6. 977417798234213
      7.845770546526363, 7.578489365592461
      8.835702357092877, 7.789644297431497
      8. 167470219150047, 6. 998824039110827
      8.866620570144416, 8.087935249133745
      8. 369890794665451, 7. 107439757131571
      7. 1135123167244645, 6.
     9306207751342015,8. 294647178413697,
     . 554264206635325, 6. 404555493464041, 9
      199918568318843, 6.563021264209098, 7
     . 243442575259843, 7. 094651886553218, 7
     <u>. 571240681981893,   7. 102788806330678,   8</u>
     . 519082272753996, 6. 671946417067442, 7
      1926338366310665, 6.9597782298876405
       8. 28<u>59002635944</u>, 7. 772082257935137,
     7. 929067644172409, 8. 110343245160838,
```

```
7677 6.561825569200073, 8.007954099599052,
     8. 710811028355046,8. 252639491122574,
     8. 327718001401092,6. 983461425400371,
     7. 912809918170374, 8. 8504980695506, 7.
     847157959598506, 9.406139279297632, 6.
     485825929848402, 8.367783502159472, 8.
     72556437944111, 7.829244092522022, 6.
     340240538673873, 8.551483399358697, 8.
     113671462417756, 5.507646528190873, 8.
     172503728246541, 8.26811319681882, 8.
     178621594750844, 6.620998829879997, 8.
     625125536608623, 6.074443031759823, 8.
     554054335543984, 7.92170245580998, 8.
     299650849941715, 7.245997215572157, 7.
     967947013606966, 6.664796687501134, 7.
     437592823808038, 8.647127306498241,
     264174300450659, 6.913705363731266,
                                          8.
     412013916039246, 7.373946166259954, 7.
     688076645228147, 7.625268862343425, 7.
     396039886740339, 6.410400605792232,
                                          7.
     002319757414307, 7.094144189320851,
                                          8.
     832691194841367, 6.394389666270914,
     <u>25950156719691</u>9, 7.195958329428091, 8.
     055038406383881, 7.854634917557424, 7.
```

```
7677 910047690473474, 8.61125757376845, 8.
     225642844988466, 7.211684265741992,
     417763614802169, 7.769683170982928, 7.
     969606364105508, 9.752423844<u>47032</u>9, 6.
     782656524941648, 7.029915025728775, 8.
     897002202207828, 7.200745998890407, 7.
     823679286259985, 6.846139416236996, 7.
     680807518147094, 8.6601076657558, 9.
     500663516691226, 7.807525401514012, 7.
     08549242344434, 7.944961840892355, 8.
     774788195134686, 7.690859900908573, 8.
     501664867342072, 7.962410142916275, 8.
     372401898859454, 9.865481716191436, 7.
     049792548820331, 6.445404523850963, 7.
     83788045050559, 7.131017469769292, 7.
     3954442440540795, 8.413766489863027, 6
     . 9852058821049265, 7. 43988316863683, 7
     . 891145057722511, 7. 866490093178055, 8
     . 525165665629478, 7. 949629061731391, 8
      375029975784821, 7.2157608469942405,
     7. 099093466720345, 7. 653348041208167,
     6. 759809697744647, 7. 826402197681344,
     6. 8946154021626285,6. 970189437039497
     , 10.455424480024876, 7.
```

File - boston01 7677 351765757374719, 7.1358840901047085, . 8324186838817305, 7. 543601143839927, 7. 610982266003871, 6. 815031961021778, 7. 172057233727753, 7. 592178983585015, 8. 422200775736995, 8. 110160998884739, 7. 1243974306266, 7. 121823473242414], lr': [0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 .001, 0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.

001, 0.001, 0.001, 0.001, 0.001, 0.001

, 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.

001, 0.001, 0.001, 0.001, 0.001, 0.001

, 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 .001, 0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 .001, 0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 .001, 0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 .001, 0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 .001, 0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 .001, 0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 .001, 0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 .001, 0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 .001, 0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 .001, 0.001, 0.001, 0.001, 0.001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.001, 0.001, 0.001, 0.001, 0.001 , 0.001, 0.001, 0.001, 0.001, 0.001, 0

```
7677 . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.
     001, 0.001, 0.001, 0.001, 0.001, 0.001
       0.001, 0.001, 0.001, 0.001, 0.001, 0
     . 001, 0. 001, 0. 001, 0. 001, 0. 001, 0.
     001, 0.001, 0.001, 0.001, 0.001, 0.001
       0.001, 0.001, 0.001, 0.001, 0.001, 0
     . 001, 0. 001, 0. 000100000005, 0.
     000100000005, 0.000100000005, 0.
     000100000005, 0.000100000005, 0.
     000100000005, 0.000100000005,
     000100000005, 0.000100000005,
                                    0.
     000100000005, 0.000100000005,
                                    0.
     000100000005, 0.000100000005,
                                    0.
     000100000005, 0.000100000005,
                                    0.
     000100000005, 0.000100000005,
                                    0.
     000100000005, 0.000100000005,
     000100000005, 0.000100000005,
                                    0.
     000100000005, 0.000100000005,
                                    0.
     000100000005, 0.000100000005,
                                    0.
     000100000005, 0.000100000005,
     000100000005, 0.000100000005,
                                    0.
     000100000005, 0.000100000005,
     000100000005, 0.000100000005, 0.
     000100000005, 0.000100000005, 0.
```

```
000100000005,
              0.000100000005,
000100000005,
               0.000100000005,
                                0.
              0.000100000005,
000100000005,
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                ().
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                ().
000100000005,
               0.000100000005,
                                0.
               0.000100000005,
000100000005,
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
              0.000100000005,
                                0.
000100000005,
              0.000100000005,
000100000005, 0.000100000005, 0.
```

000100000005, 0.000100000005, 000100000005, 0.000100000005, 0. 0.000100000005, 000100000005, 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, (). 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, (). 0001000000050.000100000005, 0. 000100000005, 0.000100000005, 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 0. 000100000005, 0.000100000005, 000100000005, 0.000100000005, 0.

```
000100000005,
              0.000100000005,
000100000005,
               0.000100000005,
                                0.
              0.000100000005,
000100000005,
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                ().
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                ().
000100000005
               0.000100000005,
                                0.
               0.000100000005,
000100000005,
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
               0.000100000005,
                                0.
000100000005,
              0.000100000005,
                                0.
000100000005,
              0.000100000005,
000100000005, 0.000100000005, 0.
```

```
000100000005, 0.000100000005,
7677
     000100000005, 0.000100000005,
     000100000005, 0.000100000005,
     000100000005, 0.000100000005,
     000100000005, 0.000100000005,
                                   ().
     000100000005, 0.000100000005,
                                   0.
     000100000005, 0.000100000005,
     000100000005, 0.000100000005,
     000100000005, 0.000100000005, 0.
     000100000005, 0.000100000005, 0.
     000100000005, 1.0000001e-05, 1.
     0000001e-05,1.0000001e-05,1.0000001e
     -05, 1.0000001e-05, 1.0000001e-05, 1.
     0000001e-05,1.0000001e-05,1.0000001e
     -05, 1.0000001e-05, 1.0000001e-05, 1.
     0000001e-05,1.0000001e-05,1.0000001e
     -05, 1.0000001e-05, 1.0000001e-05, 1.
     0000001e-05, 1.0000001e-05, 1.0000001e
     -05, 1.0000001e-05, 1.0000001e-05, 1.
     0000001e-05,1.0000001e-05,1.0000001e
     -05, 1.0000001e-05, 1.0000001e-05, 1.
     0000001e-05,1.0000001e-05,1.0000001e
     -05, 1.0000001e-05, 1.0000001e-05, 1.
```

0000001e-05,1.0000001e-05,1.0000001e

-05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e

-05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e

-05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-05, 1. 0000001e-05,1.0000001e-05,1.0000001e -05, 1.0000001e-05, 1.0000001e-06, 1. 0000001e-06,1.0000001e-06,1.0000001e -06, 1.0000001e-06, 1.0000001e-06, 1. 0000001e-06,1.0000001e-06,1.0000001e -06, 1.0000001e-06, 1.0000001e-06, 1. 0000001e-06,1.0000001e-06,1.0000001e

7677 -06, 1.0000001e-06, 1.0000001e-06, 1. 0000001e-06,1.0000001e-06,1.0000001e -06, 1.0000001e-06, 1.0000001e-06, 1. 0000001e-06,1.0000001e-06,1.0000001e

7677 -06, 1.0000001e-06, 1.0000001e-06, 1. 0000001e-06,1.0000001e-06,1.0000001e -06, 1.0000001e-06, 1.0000001e-06, 1. 0000001e-06,1.0000001e-06,1.0000001e

7677 -06, 1.0000001e-06, 1.0000001e-06, 1. 0000001e-06,1.0000001e-06,1.0000001e -06, 1.0000001e-06, 1.0000001e-06, 1. 0000001e-06,1.0000001e-06,1.0000001e

7677 06, 1e-06, 1e-06, 1e-06, 1e-06 1e-06, 1e-06 1e-06, 1e-06 1e-06, 1e-06 , 1e-06, 1e-06, 1e-06, 1e-06, 1e-06, 1e-06, 1e-06, 1e-06], **'** mean_absolute_error': [19. 758735349672868,14.876786601063637, . 390785106564454, 6. 405227175437998, . 653489366773481, 4. 921512963971117, . 890083130668192, 4. 648365780295971, 4 . 343143144259143, 4. 604307261782903, . . 597607106247184, 3. 998494078869421, . 536959128483161, 4. 194505124269255, 4 <u>. 3021</u>41289961965, 4. 335332561941708, 4 . 078270549744644, 4. 1870143524264405, 4. 248475289566229, 4. 094075944032462,

3. 9532714790604064, 3. 7704726520337557

7677 , 4.086892333193091, 3.

8883466665220703, 3.551640371789135, 4

. 000408407335311, 3. 8053062013797345,

4. 170726303714717, 4. 085600644626854,

3.8538554497178494, 4.146948434251012

3.674621770994582, 3.

7633165648847173, 3.7484697210530378,

3. 931281573263115, 3. 8032244240905477

3. 9129525308638535, 3.

624773663263941, 3.825531192608293, 3.

9755093099163044, 3.6986135773983535,

3.8933008923988224, 3.800389510559224

3.7549273591292534, 3.

7032565258604824, 3.6181622953975903,

3.663882138928393, 3.704420897982807,

3.539931772847663, 3.893864481810815*,*

3. 5903181162411952, 3. 700913091193043

, 3.769784220970083, 3.562195157118995

3.6611269077649427, 3.

4958674029300085, 3.726439389651036, 3

. 5277612541482175, 3. 497777881268008,

3.5860350109844386, 3.552529808906579

, 3.583408132057072, 3.445999761853056

3.7777457753940262. 3.

```
7677 5986702803856816, 3.5209123385210894,
     3. 579561187017813, 3. 476084503965112,
     3. 7193376951542434, 3. 613235506849023
       3. 7082776358991216, 3.
     508746025362989, 3.3467889732620666, 3
     . 334242917435826, 3. 3944598609818026,
     3. 4452500845256604, 3. 5653157843155756
       3.547625970545199, 3.
     3172169676506114, 3.463713678597666, 3
     . 507342332841442, 3. 51549143835487, 3.
     3712167887495768, 3. 3256121405137953,
     3. 2867451777030072, 3. 432249476666052
       3.709646131970196, 3.
     6267867730497945, 3.5409058291845645,
     3. 271189900743703, 3. 3356308051307133
       3.4181679372817, 3.405735359103318,
     3. 554862488903128, 3. 374015078086971,
     3. 4218858624390402, 3. 599508380742265
       3.445203455609065, 3.
     2888691019347576, 3.618454321250089,
     . 327414211473967, 3. 4399159663232854,
     3.6046039925271143, 3.3870247045168567
     , 3.585855660423775, 3.55857466987043
```

3.4730615468217123, 3.

```
7677 2941140065621295, 3.4220503277084777,
     3. 3132414146104465, 3. 486655313533157
       3.439317362227307, 3.
     4790936114249216, 3.1040232115116653,
     3.540373957194042, 3.4119172288168325
       3. 408676585176781, 3.
     3031706691895475, 3.4494229470244133,
     3. 2944211037166347, 3. 184245547273949
       3. 3150936472157575, 3.
     330329432760599, 3.2467859086606525,
     <u>. 468621943757261,   3. 353760849211607,   3</u>
     . 3815568320153297, 3. 301348748959993,
     3. 194571768905356, 3. 226236780361494,
     3. 3862294641441606, 3. 2421700747758613
       3. 118208403188747, 3. 047458946889399
       3. 5265386665568634, 3.
     478081688054206, 3.2659450522148203, 3
     . 283881811165588, 3. 1387149424006697,
     3. 411033140985589, 3. 3644390231684635
       3. 2986828173646248, 3.
     2866351423617854, 3.2106350051360235,
     2. 9194764707110616, 3. 5143697313479962
       3. 1493147799843237, 3.
     0256078320760107, 3. 2970621475125244,
```

```
7677 2. 9545022348870433, 3. 260515676563369
       3. 4168358277241144, <u>3</u>.
     2555539873731396, 3.3003272892151823,
     3. 3358355941418156,   3. 4830045832938086
      , 3.2<del>712</del>687<u>456</u>93998, 3.433<u>9</u>7030<u>00</u>36687
       3. 3373203989891076, 3.
     2103559926567433, 2.9124116805315756,
     3. 352154722892832, 3. 340129606494963,
     3. 2075945496928213, 3. 05254572482301,
     3. 188986663109747, 3. 0932109311638234
       3. 3265035226249102, 3.
     300177710713248, 3.0344581544952867, 3
      . 243199152843133,   3. 3873095850088277,
     3. 3973694231488016, 3. 2145117251865636
       3. 19586509373904, 3. 1772956080480994
       3.0346377759526018, 3.
     0175096759855196, 3. 1882247740270184,
     3. 177562948350936, 3. 04190539095793, 3
     . 1149294243508447, 3. 0168954060173627
       3. 141172020058883, 3. 177812286943843
       3.061685742608534, 3.
     1257383563201127, 3.1566187752289667,
     3. 1855106320543554, 3. 050912001184635
      , 3.2780079605409607, 3.
```

```
7677 2852619447206197, 3.039169148764005, 3
     . 0967824418478336, 3. 2164839096482694
     , 3.1637765047350905, 3.
     2307408106954476, 3.2417774746661583,
     3. 093798820448365, 3. 339632885005821,
     3. 165363244597019, 3. 0984206594549835
     , 3.1483666269402755, 3.
     0310705759946037, 2.9170408138180663,
     3. 09016528291968, 3. 1823716588064612,
     3. 117817946631842, 3. 1468054650368704
       3.0705238075079193, 3.
     0815013023352846, 2.927475270103006, 3
     . 0356060277566823, 3. 110358586990427,
     3.00665984803309, 3.266177592262764, 3
     . 173146866423427, 3. 075418371903269, 3
     . 0896995030689536, 2. 987163454386472,
     3. 2273833220219097, 2. 961625936230639
       3.049699100178462, 2.
     8658002083515606, 3.0400618392247534,
     3. 022090149368664, 3. 0621366928974543
       3. 156810952413931, 3.
     0766763096623375, 3.1385095822552778,
     3. 0487515446571374, 3. 0457618289134083
     , 3.148838669892066, 3.
```

```
7677 1177946864266883, 2.985882088126782,
     . 292940304375285, 3. 099130147012764,
      994175355869919, 2.982095154446345, 3
      0707599090717896, 2.999116213329067,
     2. 8375530892481375, 2. 7818767945094742
       3. 17743256955693, 3. 172883438252074
       3. 2186362330020395, 3.
     0435514627226365, 3.102190388983617,
     . 9649888575999728, 3. 2015126895609285
       2.9287381223849835, 2.
     9437650925603815, 2.782966619674635, 3
     . 093181468384923, 3. 1803464387592517,
     3. 0228686369609536, 3. 0798824916683114
       3. 0196460806548413, 3.
     2798901578590227, 3.210788036278527,
     . 18643417077906, 3. 0539458137547637, 2
     . 7256765815864776, 2. 8953848246819462
       2. 91828970707976, 3. 1166632031508645
       2. 9296212742572227, 2.
     9848427329639162, 3.0325202558062765,
     3. 1828933987455104, 2. 9036828563678374
       2. 7128601945221607, 3.
     0289876077197286, 2.87092840413191, 3.
     050344862620528, 3.051535773941607, 2.
```

```
7677 9364309259243426, 2.975355496716573, 2
     . 998432714503616, 2. 82730113131343, 2.
     914269821931703, 2.825419499409088, 2.
     96884024512288, 2.8990438183763816, 3.
     0847378500474867, 3.120737686983941, 2
     . 8913244422375235, 2. 9504890139257944
       2.949313650190277, 3.12947088203194
       2.81744955789194, 2.9865681859361866
       3. 127716477810414, 3.
     0182203751968526, 2. 9127870336774704,
     3.0056707622835144, 3.097508867458662
       2. 9311059466087412, 3.
     0270536063994418, 3.0576914567327353,
     3. 0776755658465644,   3. 013011612759286
     , 2.9097329669692567, 2.
     7950130741662655, 3.0468595020542204,
     2. 7780940104564276, 2. 971155981530346
       2.8976143637308764, 2.
     684926331227778, 2.9557713598658797, 3
     . 0326685492099252, 2. 919928801318071,
     3. 0369692764046023,2. 833349858275139
       3.0460359098003376, 2.
     936684914786749, 3.0402160499118063, 3
     . 0520393590070882, 2. 87272310626027, 3
```

```
7677 . 1168645266039823 , 2.8377810211004486
       2.815664897393147, 2.961479664587015
       2.9056189170931885, 2.
     9151985933168016, 3.0519437007490695,
     2.864228652357686, 3.075475070498676,
     2. 8270239165692876, 3. 127496467655288
       2.790933201556604, 3.105226540344049
       2.905308814978821, 2.825936845212529
       2. 9346375421104787, 2.
     9830224008383026, 2.911776524948262,
     . 996627837142708.   2. 8677479726242208.  
     2. 856555868597592, 2. 7851896241722462
       2. 9836317245436157, 2.
     762047103314946, 2.829954007092644, 3.
     0250431406239606, 2.8367166851327146,
     2.834975150347494, 2.752767084368242,
     2. 9407881708706127, 2. 801178407004743
     , 2.792693208983808, 2.840720026485691
       2.8900849542381595, 2.
     7802674611655553, 3.0336271697891757.
     3. 033900400433378, 2. 813272151784631,
     3. 2216501368826758, 2. 946667898550122
       2.953472665957991, 2.
     8168833410776806,2.8199249598263956,
```

```
7677 2. 686556900986946, 2. 9710933638061903
       2.7689850507505906, 2.
     9407118724964723, 2.8977687583988296,
     2. 8363504579561782, 3. 0167795596846116
       2.814751487029226, 3.
     0265708456836617, 2.891272501310697, 2
     . 886834654645654, 2. 6726558023931073,
     2. 8138438297130004, 3. 0673041853004195
       2.8092135172510293, 3.
     007793471540091, 2.927740315719286, 2.
     9279922575404402, 2.7566986143035415,
     2. 8165059163474444,   2. 7038032517713657
     , 2.8777451522579134, 2.
     719480449570222, 2.874117939464817, 3.
     0397280945497402, 2.8117491128643968,
     2. 8803281333793427, 3. 027225287706121
     , 2.617180207196404,<u>2.</u>
     9126019854294625,2. 9963278106122564,
     2. 924853563677785, 2. 768915238395195,
     2. 935034542629962, 2. 7430981261073253
       2.804606564273775, 2.71227121500777
       2. 6871125949056527, 2.
     9937883205827176, 2.9169548314422276,
     3. 036097901155336, 3. 0453486501616958
```

```
7677 , 2.836559100601326, 2.994247835117966
      2.811801230575278, 2.99519195349962
       2.6817022598933877, 2.
     604691818218113, 2.848474655358046, 2.
     809344716854509, 2.7604221308563517, 2
     . 8515407566684687, 2. 77997527033921, 3
     . 0758532045795453, 3. 053965465203158,
     2. 720988781828629, 2. 8985246327639365
       2.862716686614896, 2.
     <u>8646425831797693</u>, 2.8048223961986625,
     2. 883495380634863, 2. 9700229787974166
     , 2.756082862154249, 2.
     7540804981816294, 2.7729795303876186,
     2. 928640866796299, 2. 7405772076302637
       2. 780744792138091, 2.
     7572653994840732, 2.7667100835510823,
     2. 841065617168651, 3. 067849827255627,
     2. 73611801918077, 2. 732027006592175, 2
     . 7636943823043776,   2. 9795658145526613
       2. 920680746205451, 3. 134542659340259
       2. 908154194569071, 2. 565174837599598
       2.6692807932756266, 2.
     5428825476590324, 2.882165477371806, 2
     . 675958940488266,   2. 6778845491793133,
```

```
7677 2.749151762794046, 2.66145009337564, 2
     . 5549591067405677, 2. 8054943084716797
       2.8642828848339823, 2.
     884292115367972, 2.8045123199191258, 2
     . 7895631930407356,   3. 1459732059354755
       2.5501177525003627, 2.
     795276641476634, 2.851686146606233, 2.
     9122646083772734, 2.7564970258588763,
     2. 8713047748010596, 2. 7280736257417284
     , 2.7481680300213602, 2.
     8636942522444593, 2.5656463324839116,
     2.649788682305776, 2.7534888824073156
       2.5691350133795487, 2.
     5674081387534597, 2. 9164112614404307,
     2. 7435218055181827, 2. 694798512355462
       2. 9173814652504935, 2.
     8803884975681364, 2.9599032402038574,
     2. 8208336137212098, 2. 5989781201070308
       2.709446446076266, 2.
     5710213066254606, 2. <u>530078064177</u>427<mark>4</mark>,
     2.5700871663935043, 2.884966948084049
       2.752354149478877, 2.648141158623592
      2. 726156009609116, 2. 566301417055514
       2.6450638553306414, 2.74813856355177
```

```
7677
```

```
, 2.622384506113389, 2.
```

- 8421534429024615, 2.630087122828599, 2
- . 853332283327085, 2. 874751180318118, 2
- . 7607009052861216, 2. 759731658841065,
- 2. 5395363240788225, 2. 9050849406711827
- , 2.723289074174391, 2.
- 7175722328871026, 2.8107455699436437,
- 2. 8900443422535993, 2. 6028081374271737
- , 2.7422132853753056, 2.
- 7054692318564966, 2.6501819504303827,
- 2. 7041155118322227, 2. 7671054627504144
- , 2.86027<u>97150980948, 2.</u>
- 7674845442314266, 2.722191835704603, 2
- . 6937209969334557, 2. 6266229761643305
- 2.61304617149542, 2.747805068367406
- 2.5744522282213618, 2.
- 6793003274191274, 2.8483203321049455,
- 2. 774097572908313, 2. 7469012028661677
- , 2.856297013191247, 2.
- 7860666513442993, 2.657805412915469, 2
- . 796745915900074, 2. 5217315390383126,
- 2. 7156893675541363, 2. 649053733784348
- , 2.7915072079413448, 2.
- 7438847328487195, 2.809480033053702, 2

```
7677 . 6133500511063144, 2. 6810877057420948
       2.7651735370742276, 2.
     8669939568906377, 2.7147401634015536,
     2.837710507883007, 2.6088482233762003
     , 2.8300519860565845, 2.
     751252484764477, 2.69671733903442, 2.
     681236420622551, 2.7209428906809805, 2
     . 7089546265616873, 2. 702416594183482,
     2. 5792151593571475, 2. 792561784248234
     , 2.7829999517730144, 2.
     6246046791135713, 2.5886605907888973,
     2. 610556918401098, 2. 778746853302876,
     2. 8323369926712463, 2. 4475642630928443
     , 2.798016905784607, 2.583195370417261
       2.7703150997959054, 2.
     8459180641469572, 2.7155978613224563,
     2. 591667552481495, 2. 714869359698458,
     2. 701463632908399, 2. 557942691233136,
     2.74707068083087, 2.6172665627010097,
     2. 592431910266817, 2. 485100094009848,
     2. 5481909410134187, 2. 6290679339653935
       2.8708950498893904, 2.57513824299024
      2. 785641208152653, 2. 504026812665603
       2.7792929274378917, 2.
```

```
7677 6865766391665575, 2.450643633910377, 2
     . 5937463041429547, 2. 6759623241129304
       2.6590749951708057, 2.
     5793701790434658, 2.7102940857594966,
     2.8006184470173743, 2.468595392563764
       2.660792813581579, 2.528528787034215
     , 2.51501539617131, 2.607438925250027
       2.5655824289233324, 2.
     657622257622403, 2.722269157876171, 2.
     7655888205342247, 2.633786768367047, 2
     . 8994536746766175, 2. 756676241340283,
     2. 6827436689252826, 2. 4798465114628936
       2.617310984215869, 2.622082377365868
       2. 715181315646452, 2. 785567409851972
      2.418990302750201, 2.542876312238144
      2.480093840844122, 2.680726449556026
       2.7730179770443093, 2.
     6725120714205337, 2.5953820416063715,
     2. 5943608475912465, 2. 6123564077235595
       2. 555584455053135, 2.
     8027350629446306, 2.653657865967175, 2
     . 5695556442804013, 2. 6683121436151556
       2.6677806580398844, 2.
     4947063347134426, 2.438632133206347,
```

```
7677 . 727947105195131, 2.6180293870046043,
     2. 591081516292442, 2. 5718633589729807
       2.7590771968888794, 2.
     8779881332680906, 2.6188042695308247,
     2. 7961841832742604, 2. 396915398145977
       2.5407959019805624, 2.
     567924973396325, 2.8170192470491484, 2
     . 5443067882821286, 2. 437648847007161,
     2. 507428154118659, 2. 4989197527291975
     , 2.699555405891348, 2.
     6073985335996643, 2.5298752821635904,
     2.6843742006703426, 2.4330801646406806
     , 2.4922088284979664, 2.
     711378213421848, 2.362049522783734, 2.
     6164499521255493, 2.6310138111882164,
     2.643321111475351, 2.71267471963038, 2
     . 691691646634979, 2. 517984805830492, 2
     . 401524450018679, 2. 6033733887569084,
     2.4133252876092777, 2.58665028740378,
     2.6327081206413245, 2.6426868501462435
     , 2.712274354862355, 2.631398670444548
       2.4647804059480367, 2.
     6091053353005518, 2.6121649670158007,
     2. 648189485995762, 2. 6168918225787374
```

```
7677 , 2.75975933052807, 2.5337369633901967
     , 2.5838362513680946, 2.
     4237344054614796, 2.6405232742474913,
     2.536499264808631, 2.490425752781493,
     2.604931570797144, 2.574751473063655,
     2. 566214135556767, 2. 5151138811288605
     , 2.6246047551417866, 2.
     7392014014093498, 2.515837353818557,
     . 4554409047029337, 2. 5623196278563225
      2.58339780956599, 2.5741475056568537
     . 2.637716854319853. 2.522278122857628
      2.693967299933773, 2.602809037586484
       2.6262081193481066, 2.
     656607648167448, 2.764018734542209, 2.
     4096195225376094, 2.666033882843821, 2
     . 521311290492952,   2. 429349521734397,   2
     . 5955854742888698, 2. 7276914020071827
       2. 5892293925624883, 2.
     6973983363101355, 2.520455787056371, 2
     . 632357342693459, 2. 6283548784329795,
     2. 5149968851461497, 2. 683887775468383
       2.5998520895423534, 2.
     6701404450478567, 2.5605257236551573,
     2. 4790519086569085, 2. 7255764878571216
```

```
7677 , 2.471894633290199, 2.
     6483852162080654, 2.6938461725925884,
     2. 615705823750688,   2. 399487186142535,
     2. 591595292460439, 2. 3544847795468735
      , 2.4586978091544043, 2.
     2889797104401484, 2.442293651332796, 2
     . 6413246987404837, 2. 6653148186834237
       2. 4571296556077136, 2.
     6492037817420604, 2.4871977338849947,
     2. 492494902374575, 2. 588254885776862,
     2.5586138745948626, 2.70774980595<u>23735</u>
     , 2.6231992968<u>0</u>957<u>16, 2.</u>
     3477504932474424, 2.5581936902675095,
     2.5002220621788096, 2.4904827381435193
     , 2.525657898870415, 2.
     7103813381017914, 2.598980550057379, 2
     . 571525296190575, 2. 3525670829572176,
     2.507099301453345, 2.605222730075612,
     2. 3415804226701105, 2. 479412822162404
       2. 415876722188188, 2.
```

5723283106328534, 2.5429523308579767,

2. 543715717622739, 2. 5982696659424724

2.728592787364688, 2.

4936825365473982, 2.4678547799402715,

```
7677 2. 4637625866999198, 2. 6351050858158076
       2.4457152247797964, 2.
     413308300100982, 2.4055442463133727, 2
     . 446520595358621, 2. 6588736790990684,
     2. 511572788374343,   2. 651614262961751,
     2. 30263538773953, 2. 4494668249006244,
     2. 323581954643084, 2. 486639374549913,
     2. 4850999751696277, 2. 670712533011894
       2.5670008305056546, 2.
     5513726889902593, 2.476814064079025,
     . 3068715123569263, 2. 6513073975825825
       2.5109806481529686, 2.
     6028644986935077, 2.477854004954406, 2
     . 577154837894735,   2. 4240727620228157,
     2. 3806740340802692, 2. 5434388826506056
      2.643702339461713, 2.639360888454567
       2. 4339166798458747, 2.
     4170377514679733, 2.454238088507401, 2
     . 4938230809781574, 2. 4680473723278693
       2.5997365152134613, 2.
     4580946345078316, 2.5497993847164944,
     2. 5103033186850534, 2. 561678971299446
       2. 3213524707699706, 2.
     584834507744379, 2.5640733441332175,
```

```
7677 . 4179668153402605 , 2. 289454649015108 ,
     2.58600070380574, 2.4945736403804815,
     2. 5331083325778736, 2. 603271849753318
     , 2.5957437225908686, 2.
     469681293787233, 2.449372655097914, 2.
     565915207375683, 2.632486535299673, 2.
     4787709262717987, 2.5370514902168013,
     2. 381439586172901, 2. 2287891368747865
       2.404914289436104, 2.
     4483898088289857, 2.382703046311535,
     . 723546583216995, 2. 470001126221459, 2
     . 282022713138592, 2. 45520570477465, 2.
     521703979179217, 2.537020858227284, 2.
     433861310637034, 2.5072314325870004, 2
     . 4585009890813208, 2. 475367732092323,
     2. 455555836851752,   2. 507368619227926,
     2.3203005836844075, 2.3472890436833858
       2.4680273215468085, 2.
     620860062147442, 2.5184635820772625, 2
     . 317196435511297, 2. 4933885354375693,
     2.5801634301342093, 2.341815417026957
       2. 31755348181946, 2. 5390532585120424
      2.542223706703068, 2.
     4185965570502974, 2.4599703125909387,
```

```
7677 2.3401831997437372, 2.4701984275605287
       2.4741828493289533, 2.
     5263986557998894, 2.496030047212961, 2
     . 5571162154430946, 2. 400207280374533,
     2. 5941249416339507, 2. 5815583522843872
       2.5401159214899636, 2.
     610358424230995, 2.5121340087323736, 2
     . 536505607628601, 2. 4550931354056202,
     2. 47934796418937,2. 5172805490877606,
     2. 2499030189986566, 2. 5742453052532563
     . 2.60666711411609. 2.2956091937819503
     , 2.470516043919897, 2.587869739384843
       2.586709032117767, 2.
     3171206672125186, 2.64246773203091, 2.
     543671557408737, 2.335561288399593, 2.
     395751994460729, 2.44577768343521, 2.
     3583374377743747, 2.4447118025446084,
     2.5191389200488112, 2.547584906451104
       2.4028404666912446, 2.
     4118739628570367, 2.479749791762408,
     . 447813731598042,   2. 298404711318828,   2
      376471156306311, 2.4129271551551463,
     2. 564217269236089, 2. 4266328235897854
     2. 486171779248737, 2.
```

```
7677 5602809334687033, 2.6201555773200633,
     2. 345556008188348, 2. 5301001075620624
       2.4834072892510854, 2.
     484451922469833, 2.3831440206651715, 2
     . 460950223284978, 2. 4890032143046614,
     2. 4630759035470686, 2. 2919498353550676
       2.4857507944107056, 2.
     3444049705292787, 2.504623060994104,
      399442840286822, 2.4955646024768936,
     2. 4231771920856677, 2. 2362157102708844
       2.5874097494887125, 2.
     3086132545589293,2.4526433202873443,
     2.4306791915613064, 2.38570745<u>9582633</u>
     , 2.5412564595048273, 2.
     311317473373177, 2.4191617116839526,
     . 597849979489211,   2. 3508764796950867,  
     2. 2216637732443796, 2. 425529716184634
       2.4758258043058885, 2.
     3785878312846087, 2.558810981065496, 2
     . 2146400423610912, 2. 341807592763989,
     2. 3446805167124367, 2. 49478732912164,
     2. 343398817552502, 2. 5020764711840604
     , 2.6693472024457003, 2.54515083969193
      2. 217219633214614, 2.
```

```
7677 4574318692411063, 2.4644226570247496,
     2. 4468374695202146, 2. 1968353554929374
       2. 603455378175151, 2. 492292321503347
       2.4665368710509026, 2.
     428052463767698, 2.2708673008455214, 2
     . 641606106108556, 2. 3498550302842083,
     2.6416995990387058, 2.52011033440522,
     2. 2605402566054287, 2. 4145664762786296
       2.4532652624620375, 2.
     4861109703317883, 2.5079856852628866,
     2. 3661664299920617, 2. 2636929385064186
       2.600363210996976, 2.466596526627201
       2. 628677793423827, 2. 424158993520235
       2. 286424392148068, 2.
     3743884146398067, 2.2746153623327015,
     2.648652622205185, 2.254398564805187,
     2. 395080342381362, 2. 5061694999966457
     , 2.4419662539065805, 2.
     397394120508672, 2.405849769757628, 2.
     6457013832895377, 2.4482967621032667,
     2. 3895612486375746, 2. 5399799258347264
       2. 328160610730434, 2. 425937819407082
       2. 320312780123377, 2.
```

5236685755821204,2.4617219163168325,

```
7677 2. 457968106948923, 2. 296723114816766,
     2. 1803408569595764,   2. 23481186550<u>8</u>3717
       2. 2582011259746255, 2.
     439247674248167, 2.3000952127179124, 2
     . 3567438299072787, 2. 291819841500037,
     2. 358450920589199, 2. 4924082527219698
      , 2.3701352895966994, 2.
     4976825042405735, 2.4553928736931767,
     2. 526206221558361, 2. 4371962104419436
     , 2.314373086480533, 2.
     4385638930849245, 2.5539062787135687,
     2. 3256109853278004, 2. 3325753108635774
       2. 352897973252524, 2.
     3195882208945213, 2.3368379390645693,
     2. 478329023709607, 2. 257848006652974,
     2.4050086112952456, 2.37010569616737,
     2. 429921811579182, 2. 2748048272295263
       2.503242055329007, 2.
     1868278891678563, 2.115922951845931, 2
     . 3347572051334677, 2. 262836176175451,
     2. 2395301147511133, 2. 3949106942758474
       2. 2884574615549376, 2.
     249917186819732, 2.37049852805241, 2.
```

3973564599689685, 2.2535641385305776,

```
7677 2. 1824918671658167, 2. 4218752738492038
       2. 3438824131023774, 2.
     3954505920410156, 2.283332536095067, 2
     . 5983574464225176, 2. 200233123619859,
     2. 4223866115782653, 2. 5574145191594173
       2. 363324334377844, 2. 285532311389321
      2.4796220850280193, 2.
     172657107421119,2.4112890261245585,
     . 402845453551679, 2. 337657898941276, 2
     . 1670296812205123, 2. 2667027173027536
      2. 3837489253227186, 2.
     316037104041215, 2.399511496718085,
     576718346622337, 2.320884996892498, 2.
     277934375562166, 2.228234944328804, 2.
     240792891558479, 2.453375553568081, 2.
     511428907190683, 2.342394141220825, 2.
     477992542018831, 2.3132132306556583, 2
     . 245271557993933, 2. 459336250559095, 2
     . 477464280261344,   2. 4392963090548205,
     2. 2879184089577973, 2. 2164682766232326
       2. 2869542364734614, 2.
     2697709315332464, 2.4355102508060704,
     2. 4246533400503107, 2. 420330931158627
     . 2.46424609145882, 2.3980651130617217
```

```
7677 , 2. 219366616877978, 2.
     3893914997762202, 2.3193694253455006,
     2. 324762264641446,   2. 2526659891701337
       2. 2440493306139304, 2.
     3487275746584677, 2.243628941453278, 2
      . 263560<u>593128204</u>3, 2. <u>3144776304439865</u>
      2.3322770027184263, 2.
     2658155610317787, 2.5219373142018036,
     1. 9742685795383925, 2. 2934528500672093
      , 2.31763<del>7</del>7661087932, 2.
     439161835440172, 2.326864142351475, 2.
     190933841669892, 2.3738733415633164, 2
     . 36049257897002,   2. 42906192212651,   2.
     3333389020925703, 2.4372351797003495,
     2. 4013233627697264, 2. 3465209560866693
       2.4749115273679374, 2.1
     485008861996441, 2.4212160195359504,
     . 438019808600931,   2. 456241301338739,   2
      . 3624477091219402,   2. 1956323497804693
       2. 3819197685725917, 2.
     4518802483384454, 2.205265164006236, 2
     . 440541524267049, 2. 2273461722737125,
     2. 3027849728847065, 2. 4891725040441695
      2.4949745836641766, 2.
```

```
7677 3998763468981528, 2.211373385999225, 2
     . 358407082572441, 2. 357707473146657, 2
      2725848206794668, 2.2700610325063346
       2.3863540980099893, 2.
     421798467267039, 2.48323986626261<u>9,</u> 2.
     2942194827938964, 2.4003733710238806,
     2. 429954965786299, 2. 2022273112376776
       2. 3407778909700943, 2. 30566621269604
       2. 3391777074004843, 2. 19020400586143
       2. 271417742174107, 2. 364540011521094
       2. 1181541766175545, 2.
     227371475644894, 2.4323050348382247, 2
     . 360625335675644,   2. 3130811522988712,
     2. 2295859657204926, 2. 2920275849085474
       2. 280304616818856, 2. 249602710868552
       2. 245630950012443, 2.
     4550837636363028, 2.2227187437169693,
     2.3199995368626833, 2.5303779046970996
       2. 2242345931729295, 2.
     3516236587943675, 2.3313266581426095.
     2. 283463902517738, 2. 3627080828781835
       2. 2222989852952515, 2.
     333912589601688, 2.3771476003776764, 2
     . 2888086159531915, 2. 307277726315123,
```

```
7677 2. 3524337973757055, 2. 3573113786915876
       2.0210960435424425, 2.
     382479664895557, 2.401982209261726, 2.
     1656693720227054, 2.179317031113356, 2
     . 2418164055413876, 2. 3971264255305194
       2.363513101365175, 2.354920085369618
       2. 2491850498660<u>0</u>6, 2.
     3345213194749674, 2.1453416546800925,
     2. 3769985655143904, 2. 2687373296026108
     , 2.147313289044442, <u>2</u>.
     2148951199770712, 2.131836114284055, 2
     . 3531779449421557, 2. 2805236714543202
       2. 185377646525947, 2. 363617835768236
       2. 162352116484391, 2.
     3355218223743024, 2. 144557253310555,
     . 3791246738965297, 2. 45349550025751, 2
     . 1768495305772904, 2. 336820965211827,
     2. 3204335524201762, 2. 283688077247549
       2.357770989922916, 2.
     2913487068270753, 2.25754461799<u>6</u>127<u>4</u>,
     2. 4637475261009145, 2. 1752654221773886
     , 2.368034450631393, 2.
     0330447973481642, 2.1837797607799803,
     2. 213084035059985, 2. 2643166829373444
```

7677

```
2. 3853407740223886, 2. 26495650382972
 2. 2795019242047525, 2.
2461645285780585, 2.389738183272512,
. 25441574312216, 2. 2411467541851127, 2
. 269305256129049, 2. 275724966828668, 2
. 172470438222029, 2. 246001831149169, 2
. 204197054307896, 2. 2709766067218484,
2. 273953948965752, 2. 347005243271866,
2. 303556109360497, 2. 291597903328414,
2. 1544335087755515, 2. 2571197604247293
 2. 2604234882921626, 2.
157176880275502, 2.3306580181276835, 2
. 196365104740249, 2. 2698422408325385,
2. 1952379417862318, 2. 119501638707731
, 2.35619638283555<u>3</u>7, 2.
356161159627578, 2.3033867474679974, 2
. 459097149940467, 2. 1947282988220547,
2. 2313775455250457, 2. 16997869907887,
2. 4589749120706377, 2. 246719471810403
 2.322883638066035, 2.
3102204113183746, 2.371676577503098,
. 2651538022162376, 2. 4920114201288843
 2. 2668715648975906, 2.
301366862128763, 2.346687145831046, 2.
```

```
7677 251966263487612, 2.1296112101882603, 2
     . 4110255403784406, 2. 404597649264262,
     2. 4963337600046636, 2. 303378999602315
       2. 1615054745792235, 2.
     3423040230576837, 2.135569800533377, 2
     . 3861007963540755,   2. 4160940654506624
      2.3696185841279873, 2.
     301255580256967,2.318496733996152,2.
     4601327904237684, 2.2149757434709154,
     2. 1554641694107293, 2. 3013252702659868
       2. 2554999962679743, 2.
     208241065589267, 2.2630248025474904, 2
     . 264972479904399,   2. 2860933892867146,
     2. 191451506902559, 2. 215815877766801,
     2. 3337331423449443, 2. 403784771083678
       2. 2503974673917786, 2.
     3256701600071814, 2.0850103986521624,
     2. 348677825632479, 2. 180005059522741,
     2. 2624298754860375, 2. 1437612724008943
       2. 1857452392578125, 2.
     3560987530108943, 2.106643795598033, 2
     . 3194877392736384, 2. 06212378581611, 2
     . 1828798103627776, 2. 1941098072580507
      2.306671653000563, 2.
```

```
7677 4371455402197113, 2.3021524620499036,
     2. 3533095818924092, 2. 3575229056110323
       2. 111467479183209, 2. 170445055415387
       2.200077730066636, 2.
     2721586554043065, 2.127814567864126, 2
     . 085685175638819,2. 2329891724483146,
     2.1663457336071477, 2.362840900480194
       2. 3081499806867662, 2. 13703074470024
       2. 148220788952736, 2.
     2675703568355217, 2.10680<u>27956</u>9360<u>13,</u>
     2. 220188108391068, 2. 159754189913487,
     2. 1191401706760513, 2. 108855888016822
     , 2.410215084766825, 2.076569144201722
       2.337716067169473, 2.
     2544681675293865, 2.1453220969752262,
     2. 258578294201901,   2. 1546066146886016
     , 2.114882779195213, 2.
     2339548223158894, 2.1635515785807797,
     2. 0276069172395643, 2. 2834938369668305
     , 2.4379067546442936, 2.
     2716230106058504, 2.1360457460208573,
     2. 4358225367017576, 2. 3697547499240366
       2. 1512685434737073, 2.
```

084552906615077, 2.4356146419749543,

```
7677 . 141636745294919, 2. 1987326536385265,
```

- 2. 331926889832913, 2. 274996037822759,
- 2. 2122256807498517, 2. 3757958736951137
- 2. 2354696025789336, 2.
- 211020546062812, 2.0646127019504275, 2
- 3093315794741036, 2.112830253577454,
- 2. 2600494626874896, 2. 2777302619473483
- 2. 234551972649046, 2.
- 2789913917842664, 2.192550676895, 2.
- 4198778561394283, 2.200728951039329, 2
- . 1925533934274326, 2. 226421473565116,
- 2. 1395457977480934, 2. 1604816204992243
- 2. 2092108331597626, 2.
- 3752785223556376, 2.3415833331483067,
- 2. 3172917491511296, 2. 24124020319605,
- 2. 1306318978407064, 2. 1771762474402556
- 2. 2013746385603867, 2.
- 1290701668328915, 2.238625912474405, 2
- . 1310679993762323, 2. 283401796<u>5</u>077615
- 2.0433552088014113, 2.
- 195120087718078, 2.0752603040760147, 2
- . 4040660502002704, 2. 4082886368128538
- 2.0809519582488587, 2.
- 1602145097573104, 1.9995652522095955,

```
7677 2. 1664529802629455, 2. 040694136368601
       2. 229099896670126, 2.
     3459964287539385, 2.1114466520654895,
     2. 112732736318842, 2. 32026080598034, 2
     . 4326230520065355, 2. 1510698950327587
       2. 3181550724218503, 2.
     203356184088409,1. 975897422885009,2.
     2838511282445477, 2.232193097241523, 2
     . 092583686574694, 2. 195757225940102, 2
     . 086411480564082, 2. 123011692020546, 2
     . 253056437238451,   2. 1618064298718336,  
     2. 214603359485189, 2. 111345414775813,
     2. 124141073079301, 2. 220561945770547,
     2. 137900850721188, 2. 176368193360674,
     2. 13347921061442,   2. 1963713737464174,
     2. 070606115063647, 2. 031626288366761,
     2. 3078310759074916, 2. 0284761035405445
       2. 1284790242050455, 2.
     0417258292897937, 2.23902078088223, 2.
     1140578147427584, 2.3742628355882487,
     2. 1468192235604158, 2. 1804307518359676
       2. 1710800120705054, 2.
     2224362202842167, 2. 1672917242758785,
     2. 3092000019439602, 2. 2323433887847806
```

```
7677 , 2.3170370040663255, 2.
```

- 2286297581144163, 2.1521408395501482,
- 2. 1090526359369144, 2. 3503349646695257
- 2. 200846846996815, 2.
- 2232090825266884, 2.0832854409705006,
- 2. 2603650764784207, 2. 2447364249096564
- 2. 2882321393895815, 2.
- 1482308582624783, 2.1064226612587094,
- 2. 253577561570395, 2. 0547172905121793
- , 2.074570428476245, 2.123413304426353
- 2.014273926754116, 2.
- 0449605855410313, 2.056441378021388, 2
- . 1453868401677987,2. 2365309332177365
- 2. 196091737725048, 2. 223040258921337
- 2. 1878473625832666, **2**.
- 3227007724921402, 2.09350<u>67768805538</u>,
- 2. 1171090152610565, 2. 364540416758865
- 2. 2461268141542794, 2.
- 094122143352733, 2.1555991217078807, 2
- . 0885532507586406, 2. 1709938809598563
- 2. 1807188581756023, 2.
- 1943726030296586, 2.2533343524755707,
- 2. 1983653096591724, 2. 2797077787180804
- , 2.203364221673263, 2.283852816735259

```
7677 , 2.2462012819461408, 2.
     126434661286534, 2.0773193408092108, 2
      31544150619684, 2.093072861709831, 2.
     125176792912439, 2.102331722576183, 2.
     252243951009154, 2.068408782637156, 1.
     9562226611394262, 2.3449071678952906,
     2. 111076818900212, 2. 092087571465932,
     2. 1807930631903303, 2. 2045259394512824
       2. 308024562918365, 2. 146854128999976
       2. 216752555717256, 2. 127230079919561
       2. 240959642103213, <u>2.</u>
     0768231839956512, 2.254476472689271,
     . 0621552113039945, 2. 3676443476425972
       2.0696100077761956, 2.
     1345850690599564, 2.096114530651931,
     . 1672221949964117, 2. 1026020642404584
       2. 1934180355662534, 2.
     269259774647999, 2.102090640333784, 2.
     124954235443021, 2.1912929074313987, 2
     . 238041353668591,   2. 2520571441473236,
     1. 960125775160066, 2. 1421854473858057
       2. 2197472421746505, 2.
     3693027260133728, 2.0506193442241325,
     2. 2395651550853954, 2. 13155624242759,
```

```
7677 2. 158824822481941, 2. 2236660169005025
       2. 1641771243452657, 2.
     1174310264941707, 2.152540372252095,
     . 2976325831546136, 2. 130374122330279,
     2. 184818232391641,   2. 0778179290493943
       2.0564470246849416, 2.
     221981597389599, 2.086772559781562, 2.
     163831681658978, 1.9942634297598256, 2
     . 232279810004928, 1. 9611752214077456,
     2. 16411269855204, 2. 2164795935707566,
     2. 3319030413317607, 2. 2107722338508156
     , 2.0586502264158644, 2.
     281317994321463, 2.155365878214408,
     0811805101371035, 2.05524960409377, 2.
     2655821878105495, 2.3676214085274805,
     2. 312733529521954, 2. 176850593496033,
     2. 058520780443776, 2. 082621973365453,
     2. 0160981494206762, 2. 2556874272254968
       2. 1322035067037164, 2.
     199693756575924, 2.2032298333135554,
     . 317515337061218, 2. 1146167372771463,
     2. 1022354500950673, 2. 164872672904756
       2. 1779971698489353, 1.
     9669090254757058, 2.263962746035573,
```

```
7677 . 127696719332007, 2. 1427735012751246,
     1. 9939904559876527, 2. 162310040034008
       2. 217348529089346, 2.
     0144019879792867, 2.038127405724658,
     . 189798070919403, 2. 209726276412468, 2
      . 094441623141522,   2. 234887808469058,   2
     . 2347611703739814, 2. 1422182196065, 2.
     082016433724678, 2.059899078803166, 2.
     10859708833989<mark>72, 2.1046351471183</mark>47, 2
     . 152756132208526, 2. 262013740952908, 1
     . 989811988806946, 2. 125015984378732, 2
     . 2640106803492497, 2. 160084066191694,
     2. 1605146780102613, 2. 0845568567606687
       2.008391852533854, 2.
     0628506893713037, 2.110917274796926,
     . 1681659040805354, 2. 1282191025583366
     , 2.058269489106748, 2.063307463569169
       2. 153659129659458, 2.
     1097861495180394, 2.0363921617206775,
     2. 0228302973342753, 2. 098261975651555
       2. 1662506367030896, 2.
     1627185280108967,2.087372662113178,2
     . 1475598420890125, 2. 1612759359849867
      2.0997674070275605, 1.
```

```
9658147735123295, 2.2192044317168715,
7677
     2. 119885931812204, 2. 0433436886813987
       2. 1016128170231916, 2.
     0946885424870825, 1.9338512302552215,
     2. 153325497181423, 2. 220543391564313,
     2. 159369002554808, 2. 1336664754908887
     , 2.134759034165657, 2.
     0715128364208684, 2.012744277623416,
     . 9915589931948636, 1. 917544312152331,
     2. 2220018046559193, 2. 202307231285993
     , 2.1119324887869158, 2.1714639512378
       2. 1934302513813457, 2.
     101342996945691, 2.1484024244196274, 2
     . 0999650604584637, 2. 1631798050351927
       2.0848224336517855, 2.
     034833365549613, 2.229390817160946, 2.
     1610460960459044, 1.9843762991229077,
     2.144509076334<mark>0056, 2.0904018295807734</mark>
      1. 9525336484790956, 1.
     9839145316059006, 2.24916859086453, 2.
     1110847140244284, 2.125137725112608, 2
     . 1284508900745736, 2. 0488638687798115
       2.0078985956800244, 2.
     0603439114042112, 2.161357155525278,
```

```
767<sup>-</sup>
```

```
7677 . 234313530910864, 1. 9813491246279549,
```

- 2. 098743891937445, 2. 246070678758178,
- 2. 199943731443801, 2. 184735908596877,
- 2. 2003498315442087, 2. 2111707398027827
- 2.1300<u>61406653732, 2.</u>
- 0327422020974173, 2.218077975160935, 1
- . 9220898747444153, 2. 307336867778294,
- 2. 115774951852143, 2. 142936381762242,
- 2. 2011062958661247, 2. 0983088651308703
- , 2.107<u>901732988033, 2.</u>
- 0955091009937203, 2.1673867370322024,
- 2. 1026430687299085, 2. 224196846640147
- , 2.214052846188147, 2.089062025672511
- , 2.2215478708131395, 2.
- 1172864756347964, 2.242633394412581, 2
- . 0473178414737476, 2. 1856995337518743
- , 1.962812342879942, 2.
- 0654304935467134, 2.1257806776477826,
- 1. 98231211996669, 2. 044269011854756, 2
- . 0714414202760985, <u>2. 081</u>6831974422<u>23</u>,
- 1.8785025409131597, 2.0566385464033474
 - 2. 187711243289912, 2.
- 2108915822793827, 2.154102268971895, 2
- . 078513871774585, 2. 1342423323876347,

```
7677 2.069709542366004, 1.9735783441886074
       2. 176189989497418, 2.
     2912150713681436, 2.1117798352020074,
     2. 2227730544358955, 2. 1510442668808505
       2. 046637501140866, 2.
     2676051589357593, 1. 9885536753356272,
     2. 0495499235004093, 2. 087839438819295
     , <u>1.8853013301</u>4123<u>87, 2.</u>
     317057766043365, 2.2022584204334223, 2
     . 0021755555096794, 2. 0778955191650628
      2.1425728048702513, 2.
     0719283778601016, 1. 9257331389022685,
     2. 0707022568020657, 2. 155686806968122
       2.0717383791049566, 2.
     100619301707383, 1.9744214103686921,
     . 1503532102602554, 2. 026258246817456,
     2. 223822551615098, 2. 0368464273564957
       2. 1455947777066067, 2.
     011606183583522, 2.135478271419419, 2.
     0276606363408707, 1.9619290884065186,
     2. 052106738828653, 2. 109027053180494,
     2. 1971661479849565, 2. 0872032771538653
       2.0527027705136467, 2.
     0308122132953845, 1.9467422725984556,
```

```
7677 2. 138584807561278, 2. 200100718637, 2.
     159598285568757, 1.9878661296685045, 1
     . 9492226008660285, 2. 1397651223575367
       2. 1583017594304987, 2.
     2042223462379384, 1.977626410800237, 2
     . 078056395238398, 2. 0942768061493204,
     1. 9922780857735742, 2. 0108482955779086
       2.117028818041917, 1.
     9308422043596627, 2.003083209873353, 2
     . 097577750498296, 1. 9218433193008966,
     2.0644320090857824, 2.10865623644631,
     2.0229799430067694, 2.1568648630620526
       1.9655249749912935, 2.
     0260590506780995, 2.05679196469924, 2.
     1352356587401116, 2.0421997135268644,
     2. 2264413682299873, 2. 14142808825608,
     2. 0276968929420685, 1. 894437405347086
     . 1.94031425009571. 2.0859146716055856
       2.0666390336334888, 2.
     1724506646117927, 2.1031849984045, 1.
     979548633652206, 2.0392325374733185, 1
     . 9911000278342987, 2. 184969798699252,
     1. 9279665400738317, 2. 0934720755361553
     <u>, 2.062692217044417, 1.</u>
```

```
7677 8594338200040645, 2.1251549920061423,
     2. 152620982828524, 2. 0597264822053467
     , 1.93<u>193825701072</u>86, 1.
     9197041250234788, 2.056200373006679, 1
     . 9313809473079055, 2. 069958282328981,
     2. 0218668637260935, 2. 022717602850852
      , 2.049338379142454, 1.
     9803987508956862, 1. 8300773220903732,
     1. 9237889977800589, 2. 1100124796108566
     , 1.977011377228303, 1.
     9321168391697179, 1.9722267966890483,
     <u>2. 03892537462453,   2. 074881220011519,   2</u>
     . 0422113934537576, 2. 0553332533998754
       2.0325081112215027, 2.
     047589617986059, 1. 9347356203539823,
     . 884985980972786, 2. 0371389831920896,
     2. 0319588014584946, 2. 037490047352971
       2. 120728905725036, 2.
     0552897468070865, 2.1921987031635486,
     2. 02741263451591, 2. 2236328863138017,
     1. 9620655963295384, 2. 079837374089303
     , 1.9910056472931854, 1.
     9359162717411762, 1. 9659536268688946,
```

2. 0050948706942817, 2. 0309761131511017

```
7677 , 1.9101021112672316, 1.
     954181854200806, 2.018263997308241, 2.
     262205720316884, 2.0278449279051447, 2
     . 0171502182727257, 2. 023231069369951,
     2. 0057314866836595, 2. 055616756710844
       1. 9613548022674703, 2.
     098847315038321, 2.080796576136775, 2.
     091222001303091, 2.031209107153925, 2.
     0092575293576385, 1.992875952838744, 2
     . 0690647072098205, 2. 0297993750025984
     , 1.991231916120547, 2.027504776099887
      1. 9000079694547152, 1.
     9382726234548233, 2.1500423393751444,
     1.8668831479807757, 2.0254447161228666
       1.992262743205847, 2.0838132369629,
     2. 0640492693927635, 2. 1543627822362232
     , 1.9298025369644165, 1.
     9663545236498947, 2.080847517993797, 1
     . 9436405612957366, 2. 0636463873895696
       2. 1426824827681386, 2.
     054747767677248, 2.136787687661847, 1.
     8214048091841186, 1.9299651853071278,
```

, 2.003967261720368, 1.

2. 074983089700941, 2. 0040014808761075

```
9626135287270088, 2.03461769933671, 1.
7677
     8786609172821045, 1.955288240784093, 1
     . 9057289520653409, 2. 038734145946916,
     1. 9868024938246782, 2. 041996716807132
       1.8771314831341015, 2.
     007874382538692, 1.8505441974560173, 1
     . 9636026417876913, 1. 9961150917844506
      1. 9508457744822782, 1.
     9017025763774436, 1. 9233448217527784,
     1. 947902714873984, 1. 9703111268418492
       2.0302479093657926, 1.
     8917431488125687, 2.061241869586909, 2
     . 136783751171809, 1. 9988475004585904,
     1. 964393367708283, 1. 9467052924374677
       2.070193648707387, <u>1</u>.
     9956720550731977, 2.0020476981951356,
     2.1363080647707724, 2.0720015103602925
      . 1.9486342627013062, 1.
     9213224833963825, 1. 8945168858342127,
     1. 833578901025164, 1. 9789313170193887
       2.075228676338314, 1.
     8904097822059418, 1. 9305500703699447,
     1. 9812030460074221,   1. 9976092861163728
      . 1. 92917<u>27284528892,  </u>1.
```

```
7677 8972714552569316, 2.0284489756767226,
     1.8917045412417905, 2.005275847742063
       2.0671124059718458, 2.
     0351869329210404, 2.074091444812692, 1
     . 9039542494174497, 1. 904394929992156,
     1.965153552430333, 2.061100207615194,
     1. 825613311569757, 2. 0434669782133663
       2.0414973213207612, 2.
     121133591553006, 1.9914046190102404,
     . 068205434471461, 2. 077343731841805, 1
     . 901452474918897.   2. 0739296386854567.  
     2. 0524305931923927, 1. 975564862183373
       2.051161107264067, 2.048730673066603
      1. 9116616492670018, 2.
     0705181157256796, 1. 940167796131996,
     . 8408828276229716, 1. 9096759227407236
      2.0865726537379685, 1.
     8955642106732349, 1. 9500762833161251,
     2. 0660073517276776, 1. 870216222001303
       2. 0767963404995, 2. 077368686073705.
     1. 8777191151775443, 1. 849394323102461
     , 1.9750186928285534, 1.
     8833851710930698, 2.066628239841284, 1
     <u>. 825395436109773,   2. 0128774026599094,</u>
```

```
7677 2. 0230727354439417, 2. 0325222369687106
     , 1.909075790145449, 2.144154852388813
      1.790351276980834, 2.
     0301594302381156, 1. 9296075980360663,
     1. 9256315748019854, 1. 9592471875642474
       2. 021604467287152, 1.
     9318424016698594, 2.048948836400413, 1
     . 9411862575601868, 2. 0016057280933155
       2.0559724333116516, 2.
     0398687419507526, 1. 9658868984541287,
     1.8870330257312433, 2.0090606201543895
      1.8633097723910683, 1.
     9282645942995054, 1.9645821655128763,
     2. 1125565615969917, 1. 9967577224914503
     , 2.1806099628885462, 1.
     7664017581349187, 2.1924076368196093,
     2. 0914413006313075, 2. 001660161712221
     1. 9795803331738286, 2.
     0299064050148883, 2.0190272550833854,
     2. 1294034833878555, 2. 002783359388818
     , 2.142184691717012, 1.
     9731405622818892, 2.0917123633641577,
     2. 012592235585853, 1. 8852000572364027
     , 1.8210081504225362, 2.
```

```
7677 1355842488468983, 1.999982899187519, 1
     . 8176356742256565, 1. 9136229443476296
      1. 9788090141934138, 1.
     8455637889011725, 1.996150813604656,
     . 0564711374395035, 2. 0632605362602803
       1. 9908928061048312, 1.
     972804539712959, 1. 9715913207538356, 1
     . 9833863442158182, 2. 0237648464946925
       1. 9717329094653528, 2.
     0914631214673305, 2.1068790220992852,
     1. 9925535138546497, 2. 096001344568589
      1. 9661514397376092,1.
     9656399708045156, 2.0576767168546977,
     1. 8597655702301592, 1. 9588789711057586
       2.142824226857708, 2.044693817295157
       2.1396030220823024, 2.1
     045138390809759,1. 929347312856385,2.
     0949399611529183, 1.941514387957452, 1
     . 9306559280345315,   2. 1058293215630592
       1.8877397484085507, 2.
     0860034135103964, 1.9343257644228153,
     2. 108442171070229, 1. 998795084170882,
     2. 0323484076804053, 2. 1004123872278644
     , 2.0145478589985024, 1.
```

```
7677 979964205355098, 2.0498692838031074, 1
     . 9792029198847318, 1. 9346602616295356
       2.0342229811399712, 2.
     0710660204429745, 2.163997083071954, 2
     . 0818391086147296, 2. 0454982423191836
      , 1.8507862585616923, 1.
     9901354139434295, 1. 8965947886369545,
     1. 9430625992293697, 1. 8767377248858519
       2.0564989076679336, 2.13921745642789
      , <u>1.95144266535</u>99222, <u>1.</u>
     9693851168310679, 2.0722201195294643,
     1. 977697513974488,   2. 113436364537053,
     1. 9012870725832487, 2. 0207255043481527
     , 2.046861218225107, 2.03365009857036
       2.090493281559309, <u>1</u>.
     8371153966561191, 2.014705117641957, 1
     . 952778<u>11074</u>7736, 1. 94781475908616, 2.
     0146430808324194, 2.1085559258889117,
     1. 9307592110737188,   2. 100274963275567
       2.1156490847422242, 1.
     958059597310636, 2.1638870815005466, 2
     . 0315692181188623, 2. 0561133523474537
       2.0261293064699086, 2.
     0838150134765696, 1.9977801801988584
```

```
7677 2.015542204904113, 2.0250485098398876
     , 1.9875818524198265, 1.
     9310887155149006, 1. 9127009542364823,
     1. 9996526200704898, 2. 1516771017582426
      1.8428302911043906, 1.
     859385694143573, 1.991937749157011, 2.
     0280079092403684, 1.9607619862807424,
     1. 8504198276590638, 1. 973215038008734
       2. 137825573191923, 2.
     0085696266162505, 2.175373304739087, 2
     . 0038428288126138, 1. 9873540246449757
      1. 8831180893230735, 2.
     1097246825510503, 2.079854912802162, 1
     . 9320946952137785, 2. 1478390145597075
     1. 939187909058373, 2.
     0888104815232125, 1. 8489278787429857,
     2. 0068211518574057, 1. 8559153413994025
      1.8791740582823384, 1.
     8049828378777755, 2.0392895161921025,
     2. 040223491450212, 2. 0738341088634527
     1. 9152898434145902, 1.
     849704993029497, 2.036909651091962, 1.
     963961731169615, 2.0982525588558185, 1
     . 9175873452295829, 1. 8915185518678128
```

```
7677
```

```
, 2.0101001786742785, 1.
8931119995589596, 1. 9196632779419607,
2. 2572758382318927, 2. 0163439464273836
 1.8874150558890943, 1.
9744784101244097, 1.9908229662537944,
2. 032129795743216, 1. 923271524278741,
2. 0304661324887823, 1. 9285159325082974
  2. 187868602135602, 1. 888602938814429
  2. 041961481696681, 2.
0811917420142207, 1. 9549776585109462,
1. 8447476917007022, 2. 1737124321999564
  2. 2384302619810077, 2.
172820681757971, 2.0119107924747763,
. 9824298055548417,   2. 0240582674280407
  1.85825347014625, 2.0169518617653623
  2.0019729251832046, 1.
8067217426772457, 1. 9834212179154433,
2. 164229347240814, 2. 0034852042655826
  1. 9588734066523266, 1.
8508452830299873, 1.9236805095761185,
```

1. 9366601115040736, 1. 9471505902499975

, 1.9929410326222516, 1.

9379443417392648, 2.1088349671555746,

2. 0087326156096563, 1. 9942458329185981

```
7677 , 2.016748962387581, 2.
     0236723282757927, 2.096661375772104, 1
     . 9549678538236825, 1. 9247714557883908
      1.9565081345407587, 2.
     0340872132003125, 2.0727718695767523,
     1.8554475093404574, 1.9268520136735756
     , 2.0450525077134833, 1.
     9161665004104285, 1. 9431671103456811,
     2.127244568461604, 1.9635262031673277
     , 1.9579932460843963, 1.
     8505837991141683, 1.9456995382397537,
     1. 9134535892829068, 1. 9284933255552876
       1. 9644557846588986, 2.
     030660167936201, 1.9834119192217894,
     . 8804014983930086, 1. 8957601608506667
       2. 081463237665017, 1. 917641846757186
       2. 105736021286932, <u>1</u>.
     9637965144756777, 2.1264379755262253,
     1.890973078577142, 2.0275809875582764
```

2.118689272056792, 1.

9703002721532579, 2.032452208338876, 2

. 153233767293924, 1. 8076663179663313,

1.887999670608863, 2.0225507688965223

, 1.894663364894619, 1.

```
9146089852778905, 2.0024076467697096,
7677
     1. 9313866379829383, 1. 9637411574461143
     , 1.8979445536254729, 2.
     0881495490531803, 1.9338738530781985,
     1. 9523429582731642, 2. 169584587262511
       1. 9561495828923796, 1.
     9241472578639216, 1.8382262057933276,
     1. 9315172791850088, 1. 9692367806154139
       2.0044620103511277, 1.
     8995510247469687, 2.000777480402967,
     . 067916515441871, 2. 0170918367226425,
     2. 1561597670563972, 1. 998454731315282
       1. 9969601003747237, 1.
     9278837512521183, 2.0165327355588554,
     2. 149269783090881, 2. 0940289451241862
     , 2.01120079006573, 1.9288425796172197
      2. 2332065367477227, 2.
     0498687403489932,1. 9681783032491111,
     2. 058083418722123, 1. 994468565326726,
     2. 1042319971710537, 2. 070996101426635
       2.0876301980978194, 1.
     9448417332888388, 2.0781542867329836,
     1. 9548575191674955, 1. 8830255974926078
     ,   1. 84969602649795,   1. 871991515159607
```

```
7677
```

```
, 1.9052967028721197, 1.
9098875618571467, 1. 8533116184151948,
2. 0391675219078182, 2. 029971001871599
 1.8958536035874312, 1.
9298426329905034, 1.93211338246939, 2.
048674477143184, 2.2189208998030554, 1
 . 9974731406191186, 1. 8285355316965204
  2.0002127310070827, 2.
114331098163829, 2.0074166447016477, 2
. 0648407157360587, 2. 1670675783334503
  2. 1834952148490645, 1.
8312508056038304, 1.8649433982261563,
1.878973787044962, 2.122812634282068,
1. 9385039090372091, 2. 2283057546467973
 , 1. 9595476983132376, 1.
8737040248817705, 2.110917809577918, 2
. 130271273500779, 1. 983999632460414, 1
. 9767049543628752, 2. 045203161313438,
1. 966528707982586, 2. 020169544515226,
2. 0622675215865804, 1. 9252729098494208
  2. 1938124861879613, 1.
7529760309417182, 2.1757967339211572,
1. 9717080847766746, 1. 9373454704373245
 , 1.8649667204349034, 2.
```

```
7677 137833225837802, 1.9305966121862548, 2
     . 0896972111504146, 1. 9480046524721033
      1. 9363954150270752, 1.
     909975946134089, 2.1149571045264373, 2
     . 123446072218219, 1. 9718030421726476,
     1. 9618087630522878, 2. 1100656163212683
       2.1039158497063366, 1.
     997975461623248, 1.9611505266313582,
     . 9051481127369883, 1. 9441655996045093
      2.021769786766808, 2.
     0437680206062625, 1. 9306177886277898,
     2. 1769207490856064, 1. 9797136820506753
     , 2.112581810715029, 1.
     9744120793814999, 2.0650785441738164,
     1. 8982075548762507, 1. 9844071702691424
       1. 9824656022960556, 1.
     7988082019168157, 1. 8850274455067544,
     1. 8937359505762625, 1. 9380429758006943
       2. 1706208618063676, 1.
     9926194611348604, 2.0700477723366704,
     1. 950768644964732, 2. 025668409217622,
     1. 9936992908040805, 1. 7936076793139195
       2.0620168329392423, 2.
     0349360012417606, 1.857403410477535,
```

```
7677
```

```
. 117784461923428, 2. 0296443246835527,
1. 8997635324673017, 1. 9843961520829807
  2.0271017374268996, 2.
1158654479419483, 2.117183661313249, 1
 . 9517681165007246, 1. 9409839464784038
  1.8343158520227616, 1.
929856229677289, 2.0737911078952047, 2
. 0461128256269285, 2. 1219546702624106
 1. 948822202697258, 2.
0142788842735646, 1. 9550737725691898,
1. 8701972149473964, 1. 9038816908195662
  1. 7932842711546104, 1.
9037846099850564, 2.0634131653020993,
1. 9439433698683701, 1. 9501124258749993
 1.8266678208906215, 1.
9440804210609697, 1.934154327439819, 2
. 0124254381693554, 2. 0389331815412537
  1. 9960871477245177, 1.
8937291359015662, 2.0162791969606384,
1. 9237799805015234, 1. 8479813256130868
 1.8182748537683635, 2.
044722943852191, 2.089468999912864, 2.
0586263878795754, 2.0516788553527263,
2. 225925186470197, 1. 9444435107818698
```

```
7677
```

```
, 2.0295296900043547, 1.
9319469555981756, 2.057085624789306, 1
 . 8027370677274817, 1. 9422635345636137
 1.9467953364177386, 2.
0251981178673426, 1. 9935303450368875,
1. 9076274249575824, 1. 9683796850151323
  2. 1124181909826887, 1.
932502029850018, 1. 9826068856029688,
. 8603702783584595, 2. 0302587099857745
 1. 914719490813028, 2.
0167660399487146, 2.1042799285321783,
2. 0155676193650662, 2. 065443699573954
  1. 9280740539355914, 1.
9626821482513712, 2.0611350521583676,
2.0394370426703534, 1.8550413529570258
  2.104358702621224, 1.
9847597891332196, 2.1631811632091416,
1. 9868168491328095, 1. 8692885533944004
 1.8982200327303387, 2.
188007442943821, 2.079983112612745, 1.
9156328620556338, 2.0365909773498867,
2. 130288451079614, 2. 1026699011539898
  1.7306135256224002, 1.
9378733730906672, 2.1120679105398454,
```

```
7677 1. 9692504162389797, 1. 845439310782465
       2.1044104667639956, 2.
     0345679901701748, 1.8707502412353139,
     2. 0000827297706723, 2. 054995483289193
      1. 9440641106097691, 2.
     005901676951547, 2.0610898958271133,
     . 0073954586643183, 1. 9957863420893902
       2. 060644081871576, 2. 037334400802943
       2. 1470530723270618, 1.
     9824773409049208, 2.021122604700803,
     . 816143514202106, 2. 2711559390135965,
     2. 058081638702298, 2. 082012730855322,
     1. 7714305710128218, 1. 9538283691317673
     , 2.0249115734277496, 1.
     9405424687146402, 1. 9444684509891474,
     2. 0152580516626224, 2. 1041645546077574
     , 1.9595807430913943, 2.
     018131550620584, 2.078781765680933, 1.
     9112699084422167, 1. 9313168099421096,
     1. 8485641005238513, 1. 9010083489004672
       1. 946837029220888, 1.
     8635034561157227, 2.0614753850842407,
     2. 039611263540876, 2. 0474233191817905
```

, 1.9222269803746934, 1.

```
9450692512302576, 1.8641808343007469,
7677
     1. 9707030593057167, 1. 9482883805460973
       2.0642630367456207, 2.
     016092167919265, 2.1135780087934557, 2
     . 048199467614708, 2. 1361085741143477,
     1.8807453109014882, 1.9189457557518785
     , 1.850102560069908, 2.05042896698872
       2.040592259297799, 2.035486014634832
       2.054664458283699, 1.
     8786432093511056, 2.093863151021786, 1
     . 9622344852601044, 1. 9461216081406678
      1. 9333134553749864, 2.
     025290601762825, 1. 9775543589341014,
     . 885956421725152, 1. 9152276659897607,
     1. 9935906368881555, 1. 8420788939154185
       2.048739755116749, 1.
     9154687451873402, 1.9557034873371892,
     1. 853018793159225, 1. 8940194191947441
       2.0012924147095106, 1.89281306584184
       1.8394312976683624, 1.
     9613923641734816, 1.8511719864219336,
     1. 9314675965914416, 1. 9455486834971898
       2.042667607773937, 2.
     0841937146319696,2.0709921391017665,
```

```
File - boston01
7677 1. 998354716935763, 2. 0130518693303916
      , 1.9318910051056475, 2.
     130903769203753, 2.105381871155541, 2.
     0557887281057634, 1.991697277262484, 2
      . 108802042878449, 2. 016352543889923, 2
      . 057048579118569, 1. 945154957727013, 2
      . 0322962545388994, 2. 047649244405906,
     2. 065865442479727, 1. 9016189737585676
       1. 905122<u>5</u>561844676, <u>1</u>.
     9067778926884795, 2.0977830503009054,
     1.8557224594771677, 2.0102124287986163
      , 2.0173902485761848, 2.
     0954926966144574, 2.0102809892719375,
     1.8836413758458, 1.960858939970979, 2.
     1591311172804226, 2.039947970732816, 2
      . 1037029061155055, 2. 0352116169944265
      , 2.036880003409489, 1.998443898955366
       2.0507146788086317, 1.
     9513139639845574, 2.0593572919582805,
     2. 096172015364325, 2. 013691261456847,
     2. 02000606096935, 1. 880496111078528, 1
      . 8966153096119316, 2. 107556856822672,
```

, 1.9259060008607043, 1.

1. 949019854282816, 2. 0250776840068236

```
7677 9257062607136304, 2.019103259124992, 2
     . 0848566024296056, 2. 0388754905192843
      2.0115228363604, 2.026232161204512,
     1. 9805920131435335, 2. 0325133966587647
       2.025936564424828, 1.
     9858617701397592, 1. 90081566885898,
     8926557682616054, 2.011126547959567, 2
     . 120652119072598, 2. 0542349955614876,
     1. 9405051429205264, 1. 8439302001575197
     , 1.8477771928066808, 2.
     0417064753110195, 1.981560557250268, 2
     . 1685927246377195, 2. 151819725892861,
     1. 9978519766692406, 1. 8403589142365353
     , 2.130945793246337, 2.038270914517689
     , 2.11<u>82931484452</u>71, <u>2.0133674949315</u>31
       2.0323370684042064, 2.
     1262655885596025, 1. 9534114440528232,
     1. 9154971878595028, 1. 908737577521026
      1. 9705518425064559, 2.
     072618247554767, 1.8627376047081254,
     . 959035035257369, 1. 967529976146509, 1
     . 9606581531441987, 1. 9019051542961192
       2. 135618489962244, 1.
     8514176597905232, 2.0384767963421235,
```

```
7677 1.8964704208698804, 1.9961922847818665
       2.041065637172191, 2.
     0385708295893004, 1.8248188351699073,
     2. 0801275038497735, 1. 9589798099854414
      1.8758612830572452, 2.02783271587301
       2.0633429776035226, 2.
     058527105363899, 1.8337447993895586,
     . 9549882648160952, 1. 7326862345169942
     , 1.8661374370380084, 1.
     934461092063148, 2.005297291758629, 2.
     1165685269854757, 1. 8582708813457667,
     1. 9055216454500015, 2. 0390083612672316
       2. 1264484629911533, 1.
     9133489803633084, 1.8817752313687706,
     2. 016859296490164, 2. 0309182217246606
     , 1.9406023379818942, 1.
     9168939291508205, 2. 1304751472207415,
     1. 8626801864281528, 1. 9426868729547082
      1.894603317367034, 1.
     9712279326406426,1. 918189317633862,
     . 055798575235963, 2. 0005834139537515,
     2. 0016671267825386, 1. 8525626915896272
     , 2.025733735170158, 1.969884240959451
```

1. 937039714848663, 1.

```
7677 8746093781001796, 1.931072283086393,
     . 965578374478839, 2. 019038675001162, 2
      0963440111177993, 2.12072034074057, 1
     . 9882043913791054, 2. 027671218287465,
     2. 1016206649065756, 1. 932480916888352
       1.8907573208351254, 1.
     9768552222857165, 1.9458280982616885,
     1. 9423641021775757, 2. 038385426665976
       1. 9303428307406305, 1.
     9092162703582007, 1.973690664805126, 1
     . 8704244477830065, 1. 9388510988961802
      1.8887194642341543, 1.
     9817803005685009, 1. 8995911595253014,
     1. 9334445099343456,   2. 1367679505894426
     , 1.8886835844524135, 1.
     8957549294820142, 2.0677158138700316,
     1. 9743860794848334, 1. 9894642671195346
     , 1.992480340387799, 1.
     9748141086507507, 1. 9769194207324332,
     2. 0266610730912293, 1. 878857459815294
       2.002210068259815, 2.
     0379588419438885, 2.090667458879689,
     . 0957220331434128, 2. 032232390837773,
     1. 9924116112499415, 2. 0738122064631788
```

```
7677
```

```
, 1.9917695931974948, 2.
0040815253006783, 2.1538000247057747,
1. 9027246022741122, 2. 119534849751475
 1. 971827418442481, 1.
9252095532491111, 1.8825722770425188,
1. 9828349252234303, 1. 9255434352177954
 , 1.9938490841041778, 1.
9312123695025134, 2.007618599262769,
. 0966421841836933, 1. 9489632450021088
 2.1103056558514526, 1.
9814433866979169, 2.079917822090834,
. 0450238635296425, 2. 0016283505472234
  1. 9131250728394593, 1.
8779910765934287, 1. 9528304153920697,
2. 12736928167727, 2. 02150615228588, 2.
133182902823292,1. 952102820939693,2.
0009691508561835, 1. 961846538372453, 1
. 9822001154577769, 1. 8926622310290027
 1.8953383445001608, 1.
9063828083752847, 1.9569302313837105,
2. 004626126389016, 2. 0319860476089335
, 1.8447237011079818<u>,</u> 2.
106980333018229, 1. 977077601494804, 1.
9277939160726387, 1.923812046139602, 2
```

```
File - boston01
7677 . 011768539623579, 2. 0842637273918365,
     2. 0739653149256396, 2. 0466733643145014
      , <u>1.9649008763463873, 2.</u>
     0143502887926603, 1.95414207778848, 2.
     <u>0575550030628595</u>, 1.8606635963215548,
     2. 2276917736596737, 1. 8825773410383762
      , 2.0766583754920367, 2.
     038859063257743, 2.112110937342924, 1.
     9392721867044644, 1.9537913552009654,
     2. 1517590649725853, 2. 020792142156477
       2.0918582069799996, 1.
     8766984614794469, 1.970617462606991, 2
      . 0080161939833556, 1. 9070061039260298
      1. 9955523098954475, 2.
     0094319153865423,2.1043842422888375。
     1. 9871452050312384, 2. 154077925549203
      , 1.9607818444077814, 2.
     016828462435365, 1.931189963692113, 2.
     0314657990777456, 1.867476673133602, 1
      . 9798026310031998, 2. 06000340483137, 1
      . 7522178600447096, 1. 903244691736558,
     1. 9757611009727691, 1. 9594209214482146
```

0042102794529115, 2.0996094875660476,

, 1.8492285256784398, 2.

```
7677 2. 107668915031126, 1. 9459749677971052
       2.0325095114693186, 1.
     9069713608768333, 2.12060378358091, 2.
     0604001215367864, 1. 9154173907111673,
     2. 0218048538585935, 2. 0268696498575594
       1. 903374479651082, 1.
     9383554890428902, 1. 8868495779509884,
     2. 1484057779651677, 1. 9356841395144861
       1. 9852163105188139, 1.
     9626007973225124, 1.990855710425244, 1
     . 9358469901070137, 1. 8765230684457548
      1. 7259612721924442, 2.
     021393327244295, 1.8183502434946066,
     . 904164904411363, 2. 121632826217557, 2
     . 0195221982135125, 2. 1354281363472483
     , 1.959321890083998, 1.
     9986204230010325, 1.8836501921662605,
     1. 9198859509299784, 2. 01430530961453,
     1. 9881172327803385, 2. 033066985776919
       2.0075689026445795, 1.
     9225221901855232, 1. 8786298145450675,
     1. 932131422193427, 1. 8231404218880385
       2. 169301794778452, 2.
     0598426149356475, 1. 9367529157514543,
```

```
7677 1.8779210952044272, 1.9140474235310274
     , 1.879926134558285, 1.
     8837605644674862, 2.199551550227422, 1
     . 9523691260039622, 1. 9101398168333543
       1. 926542780716722, 1. 995992005424972
       <u>1.857231</u>6217717741, 1.
     996053465748719, 1.8749824441254324,
     . 050652362982924, 1. 963774607277507, 2
     . 1027073402522887, 1. 9664693483996318
     , 1.8591940617044644, 1.
     8756998895491608, 2.1558089839415655,
     1. 9143447935027604, 2. 1359258303332256
       2.098904391560392, 1.893315828621572
      1. 9292091507660716, 1.
     8929700061632753, 1. 9563119987216158,
     1. 9138931120881355, 1. 9288222376407116
     , 1.957734603999938, 1.
     9915659697063197, 1. 9845001298945755,
     1. 7673450062518519, 1. 901214744284426
       2.020214823377391, 2.
     0817949225658974, 2.1422153622742406,
     1. 9260789646821863, 2. 059030765350389
     , 1.8707086956906982, 2.
```

0938349334817183, 2.0457919979981223,

```
7677 1. 961171029891023, 2. 1072860103642608
       2.017344599168736, 1.
     9801259177388053, 1. 9664731247137206,
     1. 874164900174451, 2. 1208087984622446
       2.0452037130716048, 1.
     9160654614953434, 1.778318954326051,
     . 8902881544071823, 1. 9907387059539465
       2.030631510465876, 2.
     0493643612315413, 2.0803497184540833,
     1. 9525474409569896, 2. 0395692668093988
     1.8722237333793759, 1.
     9090082449809687, 2.0055052459055425,
     1. 8635499499530614, 1. 9524823183614772
      1. 9649754098325323, 2.
     162459789414893, 1.9599097276988782,
     . 9687741540902908,    2. 0966683998934625
       2.0763847702427913, 1.
     9612602076663321, 1.9399434826322384,
     1.942468201043805, 2.0289772796926115
       2. 2038350145883236, 1.
     978412277004667, 2.0897011742134213, 1
     . 9780831757713766, 2. 027116619765574,
     1. 9328816143720882, 1. 9471399643841911
     1. 9267392712111813, 2.
```

```
7677 0570866766359783, 1.879143707523405, 1
     . 9714070547475904, 2. 0151215887660214
       2. 2621221745346354, <u>1</u>.
     9755153386585484, 2.0100095434454572,
     2. 0732050562052535, 1. 8264724949934166
       2. 127530059947318, <u>1</u>.
     9498847955520677, 2.119809459975629, 2
     . 0586170958291636, 1. 9751198745733445
       1. 9802263397550435, 1.
     9745728475021505, 2.002118478987608, 1
     . 9755631349404161, 1. 9646086139206547
       2.145786757070583, 1.
     9977541885139773, 1. 9150791227263932,
     1. 9460115285111654, 1. 8014398964565974
       2.050662120429355, 1.864636317864291
       1. 9263549397235316, 1.
     7554972622047638, 1.888224805471698, 1
     . 9230704329700292, 2. 1091498273075917
       2.040404620554425, 1.94489824808788
       2.0768928262102344, 1.
     8794230591771035, 2.028671895756441,
     . 9193121316632251,   1. 9946946529412048
       1. 9245777329424218, 2.
     0479142621574757, 2.058950240767039,
```

```
7677 . 127184356329242, 2.0018629363446783,
     2. 092029045978936, 1. 7891948887438227
       2.067448300104761, <u>1</u>.
     9042422705021436, 2.0081277860576523,
     2. 066084256113129, 1. 9866797326149954
       2.015160563560462, 2.003930289678898
      1. 9347597659556859, 2.
     0736244931678653, 1. 9139003997247654,
     1.8693442241326206, 2.0827938882928145
      , 2.11381930574175, 2.0989145040512085
       2.012553778779765, <u>1.</u>
     <u>9582034655768805,</u> 2.0151905917530826,
     2. 2094788470135382, 2. 0876462828633215
      , 1.9315336542232855, 2.01282169796734
       2.002020313090215, <u>1</u>.
     9217872150911266, 2.0032388287432052,
     2. 0275590803601053, 2. 099490330684296
      , 2.09881208629431, 2.01475950660<u>3</u>5127
       1. 9554302312272251, 2.
     0596100719351518, 1. 8998434731834812,
     2. 0062401892600046, 1. 8598858885720788
     , 1.9170366112292736, 2.
```

189190126332705, 1.9486296080952459, 1

. 9531527945869847, 1. 9280830717677302

```
7677
```

```
, 2.1130807953353266, 2.
```

```
057644599177889, 1.8362661242115976, 1.941662685789929, 2.0041965475023344,
```

- 2. 0563338223625633, 1. 8411919114759463
- , 1.92067174627<u>31588, 2.</u>
- 122121954849999, 2.053914844067104, 2.
- 1373079649804176, 2.1134089244408503,
- 2. 0311740662660394, 2. 015264020615687
- , 2.137310181977948, 1.
- 9098522489654022, 1.9147738059607822,
- 2. 103681148021214, 1. 9252211516117532
- , 2.0232<u>25914398583, 2.</u>
- 1801388219414113, 2.023617006676854, 1
- . 9960202476926632, 2. 1112431029417196
- 1. 90519668904620<u>42</u>, <u>1</u>.
- 8844592091468835, 1. 9100390776023037,
- 2. 007942282378489, 1. 886004648710552,
- 2. 072241871718652, 2. 0467391235540524
- , 2.007765287954372, 2.077554224445355
- , 1.9235446482620002, 1.
- 9341379614437328, 2.0881804683629204,
- 2. 100730351988376, 1. 8927701475450498
- , 2.07728479299752, 1.9439435370566307
- 1. 9995138567667627, 1.

```
7677 860230141748954, 1.8457848045848102, 1
     . 8188931395763952, 2. 0213578131176737
     , 1.8476271732672818, 1.
     9922113263570118, 2.0528647327570724,
     1. 8643755573237275, 1. 8798529179103602
       2.0126679836781034, 1.
     956326496490384, 1.9826131972366072, 2
     . 0373273737290325, 2. 0664854939138926
       2. 089137215732421, 2. 005721586407523
      1. 978818970198971, 2.
     0173521281764972, 2. 252456605988021,
     . 8392574299968802, 2. 0590882677780953
     1. 9130496388249354, 1.
     9393624750084184,1. 912890832767398,
     . 9985525497342043, 1. 9229912805852507
       2.1400868671228275, 1.
     8918572837723298, 2.102512241886127, 2
     . 190891483988924, 1. 9734871747323972,
     1. 8655569121564506, 1. 8916283602315944
       2.0360437631607056, 2.
     011084050955049, 1.9989336872986596, 2
     . 0641755053871558, 1. 9821096130937983
      1.8914527771273633, 1.
     9714950116426213, 2.148060121772459,
```

```
File - boston01
7677 . 9010381370136982, 2.113981345120598,
     2. 1022465347136507, 2. 1010349195439013
      , 1.9925967266685085, 1.
     8228391907163448, 1.9849416949431593,
     2. 021882219211236, 1. 9044349053326775
        2. 1524985762941578, 2.
     1206000209223745, 2.085961373966914, 2
      . 045394870887969, 1. 9980832268210018,
     1. 9609031732606446, 1. 865422573990128
      , 1.894342762028839<u>,</u> 1.
     9106306608985453, 2.0631149568055807,
     1. 767770593195877, 2. 0663279475811467
       1.9730202280700022, 1.
     949746004199096, 1.9920069056767797, 1
      . 9309462144647958, 2. 023120309915336,
     1. 8760611243292273, 1. 9848725552160305
        2. 1961250999025514, 1.
     9684959066910641, 1.8205262337675774,
     2. 122444005942566, 1. 7556964683089833
        2.086802415434421, 1.
```

9691820735163732, 1. 7710377426339377,

1. 9030784984860258, 2. 051684724657159

1.8756268186834943, 1.

8850293515636456, 1.920910244571166,

```
, 1.9257644647415209, 2.
     008607589054403, 1.888122836133644, 1.
     8630066597055726, 2.0968542807611517,
     1. 9066502627204447, 1. 9930645380595888
      1. 9303816206314985, 2.
     0072720268562483, 1.85008400733995, 2.
     1341036598748837, 1.8992927653870715,
     2.1<u>566772298547137</u>, 1.97997233299<u>2</u>7899
     , 2.078080475883956, 1.
     9296860827750097, 1. 9109284124876325,
     1. 9382394851176732, 1. 9522584134211112
     , 2.0182872453341174, 2.
     0104009064358452, 2.0212002918816205,
     2. 086885541585208, 1. 8711826983989208
     , 1.8688027969454832, 1.
     926862408871252, 2.022065319143951, 1.
     8570695052575033, 1.99770917464336, 2.
     0068200822954205, 1.932482350352379, 2
     . 050354337175564, 2. 1075625094835972,
     2. 031433492991208, 2. 012677419296359,
     2. 061881174428544, 1. 9279718367676986
     , 1.8942431547324354, 2.
```

0771748561977232, 2.115609110139841,

7677

```
. 092917616891418, 1. 9158327919041778,
1. 985851766893369, 2. 238340331304922,
1. 9292401232217486, 2. 0677031942934443
  2.075141186315578, 1.
9187622904408457, 1.9576212518355425,
1. 899386769108728, 2. 0092618900925014
 , 1.8334647197472422, 1.
9594031354591204, 1. 8694531932334781,
1. 9616360180887276, 1. 9224193232716422
 , 1.907670584994573, 2.
0499528166679406,2.0023174994501165.
2. 0957661922502075, 2. 193603136960198
  1.8755539164823645, 1.
9559647490734655, 1.9195540637792818,
2. 0065008737723526, 2. 0451116176212536
  2.018631625101662, 2.
1253953053855303, 2.059786605023009, 1
. 9356181555119092, 2. 0587398658965026
  1. 9723163588497292,1.
9657402868979486, 1.9790904924227357,
1. 9088309202400893, 1. 8937291058224421
  2.0194425752657486, 2.00568549616418
  2. 1145350276132118, 2.
202690509081625, 2.00128268309791, 2.
```

```
7677 0507993609543553, 1.8418239975123214,
     1. 963262737996807, 2. 0726373741870323
     , 1.93930577309139, 1.9935254222099257
      1. 9694165002450854, 1.
     9962941131355594, 2.011124956718539, 1
     . 8985391685468125, 2. 0073471127464306
      2.029827209449036, 1.
     9787287110514684, 2.1548401980946306,
     1. 9619235756227476, 1. 9465622665712339
     , 1.9498233403952867, 1.
     9956299328582574, 1.96<u>1933501733715,</u> 1
     . 9684416738456987, 2. 118261502992258,
     1. 9378112218697374, 1. 8831381428721519
     , 1.904083912586649, 1.997885175533708
     , 1.9991952686486967, 1.
     8958157518699812, 2.026510329438437, 1
     . 9850628088133253, 2. 211272207160852,
     1. 967845539559521, 1. 9319010161024868
       2. 119562114355365, 2. 021151214838028
       2.005095423006052, 1.871527450741629
       1. 9761479395461894, 1.
     898043484879721, 1.909654599963327, 2.
     0421531207790315, 1.9706977292111045,
     1. 987279398891579, 2. 0690980334030953
```

7677

```
, 1.7793982541967102, 2.
0231527381637147, 1.8178567708276743,
1. 9997522694407601, 2. 1097139385831616
  1. 9806384088085163, 2.
161214433033769, 2.0704120689132264,
 . 9596774105686152, 1. 9711409379085152
 2.075099608108355, 2.036706050483066
 1. 9046212925630457, 1.
8227597183487363, 1. 9545602001272857,
1. 9049502098154358, 2. 035735321856874
 1. 995604296586831, 2.
0569879010365844, 2.048269448634641,
. 8991568007336312, 2. <u>002</u>874643<u>0</u>718862
 , 2.004676357880465, 2.123642169285116
 1. 9186744047<u>761333</u>, <u>1</u>.
9556344385855706, 1. 9894036885016473,
1. 941698174912125, 1. 7674079937831537
  2.0904811786793336, 2.
095236120209236, 2.034455851873746, 2.
0708017026307783, 1. 9758600670117712,
2. 087176786118617, 2. 076427418381068,
1. 9862370269586427, 1. 99609529381566,
1. 9760949275811022, 2. 1745294531801536
```

1. 9977435763037241, 2.

```
7677 183918920463822, 1.9687766109826763, 1
     . 9055366335269468, 1. 9627542163565432
       2.0364215957121954, 1.
     9602311962160164, 2.0051335188626505,
     2. 0457053029500294, 1. 9610527381070257
       2. 123362502077416, 2.
     1067911833063366, 2.078574432308091, 2
     . 0179425057242897, 2. 0287657987222585
     1. 9976427296735924, 1.
     9860708872231168, 2.121063745427796,
     . 0077310088249183, 1. 8752808735097526
      1. 9926021416489923, 2.
     054449222958863, 2.0190678587638926,
     . 01298747361629, 2. 106416602621876, 2.
     07504131661111, 2.02452960767244, 2.
     137502671026224, 1.909145014204846, 2.
     1304070145906677, 1.9430752339377861,
     2. 018564737618154, 1. 8830952249444306
      1.8962466236976647, 2.
     006635780304947, 2.02599040052101, 2.
     0211232299037025, 1.9919863367228317,
     1.8204000490737773, 2.0708639422437356
       1. 9279196889776933, 1.
     8823438886518449, 2.0031852187017907,
```

```
7677 1.8842711588915657, 2.1194918421399853
       2. 1328781418756066, 1.
     9424267671425646, 1. 940189795966488,
     . 0029227143101647, 2. 0152593537380823
      1.9450840433315595, 2.03868086566866
       2.0329186805630615, 1.
     9761806733837068, 2.0048132385631834,
     2. 122346002620071, 2. 1053695162014328
       2.0257449349382712, 2.
     000605598322747, 1.9738470849237943,
     . 053052689268862, 2. 0756261112520202,
     1. 861862906361512, 1. 9882510343203235
       2. 024624508600855, 1. 984890908279655
       2.0385698482348085, 1.
     9697415083185439, 2.0402275681864737,
     2. 053834020537858, 2. 0489463747101304
     , 1.9163601280365936, 1.
     8462016398877181, 2.048886763053044, 2
     . 071218679563918, 2. 0758929887423205,
     2. 0055021217363906, 2. 180980307768004
     1. 9821217565713651, 1.
     9679990124776268, 1. 9322518350170124,
     1. 8826696376313365, 1. 8555993974762435
```

2.040127898886477, 2.004598909902499

```
7677
```

```
, 1.9080351067032237, 2.
134656534844508, 2.1324080448401603, 1
. 9508614857499444, 1. 8968413149240215
  1. 9568181936585867, 2.
042078277643989, 2.0219265122900807, 2
 060388164992672, 2.0131165357566103,
2.1055941039194632, 2.007843882860414
  2. 031159947900211, 2. 091460652395668
  1.8494002516424692, 1.
976436649682721, 2.0408639922599674,
. 008793393893877, 1. 988588666399197, 2
. 0211646405535957, 2. 0171014413745043
  1. 9449403404082306, 2.
0242575144989203, 2.021371848719777,
. 0720127152953722, 2. 1758440769862832
  2. 2141217277515044, 2.
0306963075425233, 1.903086975262999,
. 9091718156271305, 2. 065518765995746,
1. 8947228300313093, 1. 8698080287260168
  2.0021456904455603, 1.
969975778377462, 1.9614255077698652, 1
. 980746310561803, 1. 9500484437027215,
1. 9525579764008891,   1. 8868816426663946
 1. 905918317682603, 2. 092252111287309
```

7677

```
, 2.177489906272652, 2.
<u>0300338642885074,   1. 9399115736639536,</u>
1. 9698486217404299, 2. 055328859079733
  2.0141784259040287, 2.
075316071879384, 2.040732930319228, 2.
020322280033454, 1.8982622608680844, 2
. 055233220935975, 2. 2235060003888867,
1. 9253111800911258, 1. 8761558237459637
  1.854667728161295, 1.
9534650760538437, 2.0070924788436653.
1.772101832986247, 2.0196715146764515
  2. 146943165421855, 1.
8788492524586964, 1. 8821508138910537,
2. 062253721542772, 1. 9234536173912025
, 1. 90129019896681<mark>47, 1.</mark>
9732275570140165, 2. 160137598728617, 1
. 7978444464804588, 1. 9344601815699054
 1. 8966081164569677, 1.
9196427429423613, 1.9765276481677134,
2. 139921238547877, 1. 9901945066894908
 , 1.9713119434498412, 1.
```

8978602568800604, 2.0475817732397616,

2.043756328500092, 2.120130072437204,

1. 895715678439421, 2. 0997436747831455

```
7677
```

```
, 1.9805114944652875, 2.
1075842055742955, 1.9151325218448698,
1. 997893779639489, 1. 9310725931043595
  2.013675949521847, 2.
0020978447084454, 1. 9010476715424482,
2. 172854273311863, 1. 889998524550683,
2. 001164861876898, 1. 9438976702675361
  2.0312895612450945, 1.
9235454598447486, 2.1224483273715795,
1. 928924427682032, 1. 9750800529500647
 , 1.957257398141796, 1.
9721901549643408, 2.0852375764964903,
2.1009704631179478, 2.0677273635155644
 . 1.928359117670325, 1.
9604497889616173, 2.0575257294318257,
1. 9783160826739143, 1. 9973765866306175
 . 1.9132617497960849, 2.
0162984941027853, 2.124054327099685, 2
. 0429731323254, 2. 077329570663972, 1. ]
8884034481580043, 2.046296895472996, 2
. 1507240507993903, 2. 017976601795515,
1. 9370228288343447, 2. 0408395635823346
  2. 011571845956631, 1.
7852141857147217, 2.040717877101603,
```

```
7677 . 0754906031369424, 2. 032126030685732,
     1.8598997659358447, 1.9461248105524493
     , 1.8565236747080327, 2.
     0107415556538584, 1.9778966195074028,
     2. 0912937833797822, 1. 9484456390050173
       2.001001848524938, 1.
     8758045877834593, 1.9875229456845451,
     2. 091711629285901, 2. 0611199096260426
       1. 9168697518091822, 2.
     039517500821282, 1.973276079623692, 2.
     077707898875139, 2.0274237028954567, 1
     . 948043891150885, 1. 8475795720383847,
     1. 9855235220847116, 2. 0159831024913966
       2. 1251788715090916, 1.
     8265229389763469, 2. 1746413290685176,
     1. 9726304369445187, 2. 078243781538571
     , 1.9771034728631884, 2.
     0074548512789487,2.0745718933111372,
     2. 0991078345768224, 1. 9238704142186664
       1. 9574722428070872, 1.
     965891439848271, 1.9719996201364618, 2
     . 151634258382461, 1. 8866785310739334,
     1. 8369331566541927, 2. 140407060414276
     , 1.9654468309030444, 2.
```

```
7677 0701892339039145, 1.8867068157845606,
     2. 0311965890713153, 2. 010111828706582
       2. 1552319593104783, 1.
     9752316781241828, 2.010062439891945, 2
     . 1202532529092792, 2. 1555587544160733
       1. 949860971040401, 2.
     0669071744470036, 1.9964040241005252,
     2. 1277994090927645, 2. 2038728696273946
       1.8976293776426523, 1.
     912081615105502, 1. 9215520904529206, 1
     . 9773224280345552, 1. 9685357454760526
       2.0014146501803913, 1.
     916125730833402, 2.032718214826318, 1.
     9388984319964429, 1.9431431537073094,
     2. 0973059444604645, 2. 0520392206062104
       2.044129350975202, 1.
     9470359251226066, 1.9063181799631739,
     2. 0293574200326074, 1. 9093086368897383
       2.0442370600744666, 1.
     9163018107045175, 1. 9178472606021184,
     2. 2454645928952717, 2. 020352310440489
     , 1.921569352548558, 2.019716929356011
       1. 9949511322812767, 1.
     9654459085995937, 1. 8666619103021298,
```

```
7677 1. 9794619891665668, 1. 9864600214057662
       2. 1678864682791033, 1.
     9958639288834374, 1.98468545457527,
     9757868298805166], 'val_loss': [400.
     37956859447337, 192.39282433780622, 81
     . 05529909958074, 53. 96454841560788, 48
     . 30186622267888, 42. 37336735666534, 38
     . 5929124156634, 37. 204532553752266, 35
     . 388422085167726, 37. 78412300274696,
     31. 46570716522358, 30. 791389287989816
       31. 418227882204967, 31.
     099247768061396, 30.452648360052226,
     33.8185044836115, 27.774630839258066,
     37. 19367715458811, 28. 937030933521413
       28. 7301759928886, 29. 31667212682006
       26. 88550682568256, 26.
     754028258868207, 28.027159126820386,
     25. 855800946553547, 24. 964684431935535
       24. 35795579721898, 26.
     820699757080018, 23.844383513485944,
     29. 673592616010595, 25. 330485700089255
       28.041765809795002, 24.
     091491613859013, 24.897285022853332,
```

25. 880376290863403, 25. 831130474437902

7677

```
24.00924069425206, 23.89149443069358
  23.63514444195194, 23.97850196413052
  24. 788785642311897, 22.
126042616220168, 22.993344485759735,
24. 092307570229433, 23. 42263752737163
  22.867250439561445, 23.
397692107124094, 23.976274671745887,
24. 138895619535262, 23. 676051111041026
  23. 348841224923547, 23.
497001449005495, 22.14497143821216, 23
. 649068134797375 . 21. 95757182439168 .
22. 66624820361167,23. 186684944747405
  25. 39939701851503, 23.
682435321219174, 25.595585033093453,
24. 52970164195623, 21. 994376382710023
  24.81844245822077, 23.
618437365985212, 22.83267958149498, 23
. 98711098<u>1982156,   23. 31530808887364, </u>
23. 378857718573677, 23. 15026194225123
, 23.877672601629186, 25.
371369667259263, 23.625826411777073,
25. 377252843644882, 25. 311797904286156
, 22.00332898563809, 22.43262854623<u>2</u>06
 22. 541085210847267, 20.
```

```
976997088502955, 21.493953592983292,
7677
     21. 5366516245736, 22. 186857723895415,
     20. 743604330368985, 21. 49644179403046
       22. 76804412147145, 26.
     153731637898787, 25.214280050661827,
     21. 765185709352846, 22. 2420489905793,
     22. 354837382281268, 24. 794622035743092
       21. 781053495995792, 21.
     809484952761803, 23.3740127487683, 24.
     340433337070323, 23.609114992765733,
     22. 464996390872532, 21. 61120167411404
       21.694493630786003, 22.
     136935263504217, 22.088447364024173,
     21. 44492942021217, 21. 016729089213005
       22. 47640738884608, 21. 67468711181923
       21.605841056800184, 21.
     670534359820095, 20.630731436205497,
     21. 48592449338348, 20. 893178345244607
       21. 406470319371163, 22.
     81945086215381, 22.170361241808646, 21
     . 37825687431995, 19. 590746381768472,
     20. 867693454395106, 21. 018180896470575
       20.822255898359014, 20.
     22420315683624, 20.359866516457664, 21
```

```
7677 . 18887334406652, 22.691453413876854,
     20. 55092394903854,   21. 989243004241107
       22.028809349845957, 21.
     652345076203346, 23.139351727050027,
     20. 133046824255107, 20. 76547371264961
       22. 262977444095377, 22.
     134914097962557, 21.22088787548336, 22
     . 5624401314575, 21. 70180783595568, 21.
     33227980357629, 22.291037857302545, 20
     . 62347530141289, 21. 42802673743831, 21
     . 783974231945145, 20. 184646880185163,
     20. 518194972615788, 20. 4164113662907,
     22. 909683810340034,   21. 291176032780864
     , 21.769132488119748, 23.
     170972877078587, 20.477532488144476,
     20. 774547038254916, 20. 512184746885374
     , 20. 385316863472077, 22.
     078001687372172, 22.756978305769554,
     23. 013417638378378, 20. 95965432656216
       21.843573160929445, 21.
     <u>69046333377008, 20.905244247412977, 22</u>
     . 478080884128072, 19. 937605954982615,
     19. 952332271469963,19. 76863779697889
```

, 19.757853803075392, 20.

```
7677 07272813938282, 21.969478581566364, 19
     . 97034403718548, 22. 922212483510833,
     22. 42988126071883,   20. 46099266225909,
     19.827266532375855, 20.042740266749284
       20. 636934039953314, 19.
     218414765817148, 21.280193630192016,
     20. 627339782538236, 20. 79330799020367
     , 20. 1534665808265<u>6,</u> 24.
     059218378346642, 18.994159867734083,
     19. 512010573053065, 19. 694073497513195
       20. 25401885692536, 20.
     362518083166194, 20.01062633078775, 21
     . 04123389573745, 19. 952078296814435,
     19. 38975339024155, 20. 533945658876572
     , 18.889585900453874, 19.
     661927287852002,19.60060766891197,20
     . 203842514826928, 19. 196184950110354,
     19. 377985289067396, 20. 523769677421193
       20. 66559358143512, 19. 85070580979924
       19. 497186225137593, 21.
     156442160959596, 21.563038972056944,
     21. 70856194685639, 19. 838612155091983
     , 19.84056943760794, 19.68489490762169
      19. 210543433089317. 18.
```

```
7677 98446187855285, 18.763705615644103, 18
     . 849079567709087, 20. 887897275480224,
     21. 5577280037565, 20. 085225147229654,
     19. 304266986839565, 18. 256494758305728
       18.69049013470426, 19.68995765550637
       20. 167497277995686, 19.
     783443301732156, 19.41304352548387, 19
     . 615283907195668, 19. 333398894165402,
     18. 874007103619753,18. 478589108696692
     , 18.344426090334668, 20.
     13483309828573, 19.968472870779625, 18
     . 985441971708227, 19. 808536659788203,
     19. 333847017935764, 19. 70631089585799
     , 18.71210761717808, 18.71937185157964
       20. 351389437545965, 19.
     81500337741993, 19.72096505595578, 20.
     415853991920564, 20.16497332667127, 19
     . 517680873105554, 19. 456322618472722,
     20. 48284422764325, 19. 753371789131634
      18.71240993782326, 18.61072896733696
      18.645604026170425, 18.
     361596731492032, 20.50570499476183, 21
     . 03068809259545, 19. 40848646046203, 19
      771253193418186, 19.09568625247037,
```

```
7677 19. 72036826757737, 18. 810959813035566
       18. 04291284525836, 18.
     487337930702868, 18.484093855871002,
     19. 164057629113948, 19. 456379382006062
       19. 43<u>1538882814806,   18.</u>
     681638522464553, 18.537896459485278,
     18.732093035438915, 21.52310351677883
       19. 18007386981705, 19. 85408864253097
       18. 12087587368341, 17.
     544065793355305, 19.117108569101052,
     18. 110606249467825, 19. 297818746768446
       18. 13901<u>305787</u>3573, <u>18.</u>
     11974034945906, 18.711396392848755, 18
     . 57310204318276, 20. 682681288248226,
     18.794735958546767, 19.29426835063431
       <u>19. 20065344704522,   19.</u>
     285657015479643, 19.321554884498504<u>,</u>
     18. 880439768786783, 18. 94575579813969
      19. 243553703213916, 18.
     45478168056335, 19.560123311976593,
     . 61701375098876, 17. 95977578928441, 18
      . 266451134817835, 18. 160948316256206,
     17. 89765100125913,   18. 407428288165434
      18. 778364662770873,17.
```

```
7677 678392266049798, 20.452178783070895,
     19. 868761035395256, 18. 671888254306936
       18. 7579522765713, 18. 857165507328364
       18. 514955591272425, <u>18.</u>
     324281615975462, 18.71001785036958, 17
      . 792972096690423, 17. 704451424840055,
     18. 337131285235102, 17. 578874471746843
      18. 27362138548015, 17.
     393748963320697, 17.54707601767631, 17
     . 19546148015393, 17. 666445515038056,
     17.72244092343766, 17.681671920588908
      17.503508498639235, 17.
     343301278573495, 16.869813942614897,
     16. 97397745391469, 19. 301331138537254
     , 17.138073794635726, 16.
     893083008719078, 18.218157832959182,
     18. 295396485538394, 18. 48363872125377
       17. 467587468616756, 17.
     223825565090888, 17.05341221226586, 16
     . 966984584007733, 17. 2905802682594, 17
     <u>. 1373</u>338824437,   17. 188518170957213,   17
     . 298772168748172, 16. 818640758961806,
     17. 2876957691746, 16. 684552586740917,
     16. 845723815906194, 16. 778575077468965
```

```
7677 , 16. 9907060596678, 18. 923667854732937
     , 17.675578479045704, 17.
     02971829427981, 16.978872668228032, 17
     . 323422697591194, 17. 80310148736577,
     17. 559704021907148, 17. 92750842023043
       18.0007706321316, 17.688434796016892
      17. 978059920447844, 20.
     298814881684972, 17.45758623547024, 19
     . 18040805429588, 18. 227179447073997,
     19. 24326083873525, 18. 0428484796006,
     17. 53318096826106, 17. 666424473126728
      17.760924214934125, 18.
     153786796110648, 18.10621209792149, 18
     . 6804200719904, 17. 50459513840852, 18.
     009759606954493, 17.873989560353902,
     17. 549663996990816, 18. 71653327456227
     , 18.20703327802964, 17.
     290521403153736, 17.543926890249605,
     18. 47430128770892, 20. 051591941247477
     , 17.305785477897267, 16.
     982806576622856, 18.55683349801032, 18
     . 151302301037457, 18. 617257202848975,
     18. 481509092413347,   18. 165551859655498
     , 17.51145866697217, 17.
```

```
7677 698170042332308, 18.73417825371395, 17
     . 86165973433742, 18. 485989654505694,
     18. 44156898981259, 18. 10851127277186,
     17. 391188424310567, 17. 8534504013297,
     17. 085731422459638, 18. 508784620850175
       17.825846471904235, 17.
     55997601850533, 16.742265395176265, 17
     . 592062567487176, 18. 14272117614746,
     17. 869907838326913,17. 079137300267632
     , 17. 393116151845014, 17.
     26949033619445, 17.17730369391265, 17.
     079101902467233, 18.74571041137348, 16
     . 773989391915592, 17. 113536767017695,
     16. 909750879546742, 17. 29839977217309
      17. 506138838367697, 17.
     616618828273115, 18.86758516388543, 17
     . 84092554634, 18. 02225555056982, 17.
     9731784781878, 17.521753168768353, 19.
     30221666873973, 18.23746508286323, 16.
     82505468380304, 17.3013564362938, 17.
     11925976070357, 18.538815951641695, 18
     . 386545736112712, 17. 300051709752022,
     17. 123877522386152, 17. 433769165733715
     , 17.13656132309525, 17.
```

```
7677 804001142949232, 17.37480648064319, 16
     . 802506688200396, 17. 38311533280361,
     17. 354381602487447,16. 368566683781,
     17. 398883283874135, 17. 81508907859708
      18. 38317095129578, 17. 38232465143557
       17. 655452154300832, 17.
     92512560553021, 19.77754069564657, 16.
     866237454944187, 16.193491723802353,
     16.65427807819696, 17.76162169892111,
     <u>17. 0781082091508</u>1, 17. 039428693276864
     . 16.959451969758963, 16.
     981996328742415, 17.82403861372559, 16
     . 978754570454726, 18. 256121400697733,
     16. 47961586493033, 17. 620389454158737
      16.680662246397983, 16.
     36225656521173, 17.142550310970826, 18
     . 7963804046129, 16. 88294205032749, 16.
     745719989140827, 17.515495135552353,
     17. 315200482989535, 17. 83728892567717
       17.817123084524532, 16.
     653663515308757,18. 223903825161635,
     18. 095849720048317,17. 173995952547333
     , 16.883811623961837, 16.
     896728932857513, 16.518125890213767,
```

```
7677 16. 717562902488826, 16. 78684976991312
       19.633023299092862, 16.
     269702738449897, 16.55539232418861, 16
     . 478149119718577,   16. 27291276646249,
     17. 418755250580517, 16. 405066322397303
       16. 39271784711767, 16.
     248134986118036, 16.41002708894235,
     . 86049786614783,16. 78451756047614,16
     . 594311588340336, 19. 04266500679983,
     17. 003057615256605, 17. 09495832596296
       17. 670869411509713, 16.
     652620711444335, 16.771438328572263,
     17. 011003730105767, 17. 08743985052462
     , 17.217562470907048, 16.
     408012004546176,16.610033850610993,
     16. 786640267313263, 16. 448187206998284
      17. 43068289683189,16. 39986773773476
       17. 851354175143772, 16.
     742366387520306, 17.298588430439985,
     16. 45589240686393,15. 960627370410496
       16. 49536519874761, 16.
     667213333977593, 17.255712382587387,
     17. 41883901460671,17. 285479916466606
     , 16.26070679558648, 17.22387010521359
```

```
7677 , 17.663511992236714, 17.
     616344228202912, 17.35457467444149, 16
      . 727325710249534, 19. 0039457877477, 16
      <u>. 60102528112906,   16. 455196566787766,   </u>
     16. 774687936644494, 16. 430711231113953
       16. 523594344103778, 16.
     615560270385977,16.51908089202127,16
      . 796336231408297, 17. 38483887248569,
     16. 728931591834552<sub>.</sub>    16. 30659733289554
      , 17.12082213531306, 16.53393567049945
       18. 373253308696512, 16.
     88329922417064, 16.721683243174613, 16
      . 345829104199822, 17. 46234834488527,
     15.77006193149237, 17.45253324655839,
     16.763300280512116, 16.346717057404696
     , 16. 39411896246451, 17. 4631442<u>43499</u>38
      , 16. 214034301263315, 16.
     076424201329548, 16. 061219215393066,
     15. 776824801056474,   16. 507161581221922
     , 17.474568270054863, 15.
     945152568228451, 16.29643185344743, 15
     . 754535112851931, 16. 871628605289224,
     16. 51477083269461,16. 48956953007498,
     <u> 16. 55760054676621,   16. 377427018718954</u>
```

```
7677
```

```
, 17. 47167769037647, 17.
169500489293792, 16.468186574217714,
17. 32712153299355, 16. 082190416477346
  16. 701543195748034, 18. 1441381831228
  16. 138461357281532, <u>15.</u>
866471655574845, 15.759158889452616,
16. 817702602457118, 18. 171909211594382
, 16.508584552341038, 18.
55676270119938, 16.905234101377886, 18
. 079141781653888, 16. 667661793438004,
16. 23234900133<u>1094</u>, 16. 1304842689<u>89093</u>
  16. 748718791537815, 16.
61120669047038, 16.55698471304811, 16.
<u>59755112801069, 16.932017592736234, 15</u>
. 924418525931276, 15. 690613484676973,
16. 079951698397412, 16. 22421916620231
, 17.100315874005542, 16.
280417407000506,16.597537252638077,
17. 095911688274807, 15. 580070860591935
  16. 916475656591814, 15.
273104826609293, 15.687799397810005,
15. 695706385153311, 16. 34733714292079
, 16.079826693475983, 16.
588209811552073, 17.49789023472939,
```

7677

```
. 057451954594367, 17. 775611912670694,
16. 02545172785535, 15. 843090019108336
 17. 916290924872882, 16.
548944069279564, 16.00834275027852, 15
. 655574117177798, 15. 944868259959751,
15. 303059992966828, 16. 000565580379817
, 15.372936657917352, 15.
640573910724969,15.842695624740035,
16. 144233223832686, 17. 003270740126386
, 15.98856830008236, 18.
371737625127956,15.881593768979297.
16.05044416439386, 15.56915694107244,
15. 9252556959788, 16. 455527861913044,
17. 293280678030886,16. 33358437926681
, 15.751235567493204, 15.
73833903854276, 15.495549257890678, 15
. 45979137479523, 15. 701074400065858,
15.665922088387571, 15.780709814142298
 16.07125570744644, 15.
884347477076966, 15.051606537383279,
15. 203802915267003, 15. 50549954543879
, 16.082648968990938, 15.
418602972854803, 14.889400512347986,
14. 74869656709977, 14. 926600924244633
```

```
7677 , 14.674637429508163, 15.
     059203345098613, 14.705106964817753,
     14.639611550319342, 15.124874672771972
       16. 82557998965552, 16. 04624918140011
      15. 411271316033822, <u>15.</u>
     276928348305784, 15.621826937169205,
     15. 943806742444451, 15. 13438134134551
     , 15.943569386446917, 16.
     344203913653338, 16.583828452192705,
     15.635991649863161, 15.573251995039575
      15. 280891783443497, 14.
     894938851580207, 15.495216836164028,
     14. 99587294643308, 15. 738868594169617
     , 15.776265833112928, 15.
     766407483889733, 16.10387115419647, 16
     . 05812675570264, 16. 933496392435497,
     15. 795763533792378, 15. 90792<u>5</u>189277272
      16. 452288180221746, 16.
     221916671152467, 16.287515266442004,
     15.64446889029609, 16.24936678821658,
     15. 652706952742589, 15. 889938707704898
     , 16.516878227392834, 15.
     846832773567717, 15.342001055493768,
     15. 665799586125361,   15. 200319198914515
```

```
7677 , 15. 288314842883452, 16.
     541250816097968, 15.546124199290334,
     15.81146048322136, 16.267109046747656
      15. 43037912580702, 15.
     810933357403602, 17.96661096305391,
     . 193762406154914, 17. 2670875714149, 15
     . 895541029211916, 15. 634438196818033,
     16. 18393674897559, 16. 16464657842377,
     17.66167195049333, 16.27118742024457,
     15. 491933934482528, 16. 460213839271923
     , 15.218798454896904, 15.
     35997948234464, 15.35763230147185, 16.
     60684742015085, 17.528793142901527, 16
     . 053559992048477, 15. 775071073461461,
     15. 564264288655034, 16. 08793459998237
     , 15. 199811002354563, 15.
     12344875600603, 14.947664702380145, 15
     . 049187766916958, 15. 134375976191627,
     15. 18361050994308, 14. 95309063093162,
     15. 27920702357351, 15. 204901777667764
     , 15.364354539800573, 16.
     07047141334157, 15.102382471531998,
     . 621238052109142, 15. 2955983126605, 15
      482294488836217, 16.05275038142263,
```

```
7677 15. 38058791042846, 16. 29013541009691,
     14.63003200954861, 15.242622051709963
     , 14.862968015082089, 15.
     200523971039573, 15.475833654403687,
     15. 74436581576312, 15. 637640196600078
       16. 26022506201709, 15.
     288815960472013, 18.80196433082039, 15
     . 089914015781732, 15. 679172919120317,
     15. 127125798920055, 17. 11631183565399
     , 15.52203345887455, 14.
     872032671798895, 14.933024971573442,
     15. 18399316293222, 15. 438635955622166
     , 15.877557645609349, 14.
     591350779121305, 15.500332170062595,
     17.864266718243375, 15.170974725558434
     , 16.0168924552423, 15.58757288662004
      15.861232722247088, 15.
     243131931917167, 14.966122609597665,
     15. 337479714994076, 15. 320647829844628
       15. 487806343737944, 15.
     674007486414027, 15.203080671804923,
     14.535874037095057, 15.040153259112511
     , 15.467609156796962, 15.
     807386257030346, 14.99540333541823, 14
```

```
7677 . 858195933294885, 14. 851313125940017,
     14. 328730721532562,14. 309562321062442
      14. 347696489757961, 15.
     40558237205317, 14.901170448020652, 15
     . 219565011836865, 15. 142866571744284,
     15. 079685034575286, 14. 616530494925417
     , 17. 391075754239235, 15.
     719234643159089, 16.688386193764064,
     14. 984259522991415,14. 797481227804113
     , 14.573537985483805, 16.
     543686746815105, 15.14652990411829, 15
     . 039986277803962, 15. 412933735199916,
     15. 116249208097104, 14. 900178647335665
     , 14.926697704527113, 14.
     839117491686785, 15.57586152906771, 16
     . 061741717067765, 15. 444856449409768,
     15. 368188298778769, 14. 946370401500184
     , 15.311323042269107, 16.
     37836598466944, 15.73867858486411, 15.
     053851819332735, 14.708835225046418,
     16. 11176194085015, 14. 630288630356024
     , 14. 995787102499126, 14.
     899461136923897, 14.326184355182413,
     14. 288321595133088, 14. 424011153939329
```

```
7677 , 14. 370833102567696, 14.
     187765306896633, 14.835351567209504,
     15. 4530896021996, 15. 280731053999913,
     14. 96821603657287,15. 08215970021707,
     16.09113026842659, 14.922775980866986
       13. 949285872188614, 15.
     111504623919357, 15.398807232762561,
     15. 035777739536615,14. 58362321794769
     , 14.440373027766192, 14.
     740037114531905, 14.451428642979375,
     14.610464990874867, 15.454850048194697
      14. 495782528394534, 14.
     964404353389034, 14.464235878285066,
     15.503881104198502, 16.01672331749657
     , 14.507026<u>935</u>801093, 14.
     630859645796411, 15.464257831190839,
     15. 798241803675522, 14. 983140140403936
       14. 684217738516537, 15.
     887369365603835, 16.24591151210997, 16
     25959246835591, 15.032705613124518,
     15. 11037062715601, 16. 459116213115646
     15. 90072547506403, 15.
     938893719955727, 15.553661670213865,
     15.602140263274864, 15.06803219701037
```

```
7677 , 15. 236614219200463, 14.
     656959262894995, 14.67383121634707, 14
     . 959461416359302, 14. 981902619938792,
     14. 35075690716873,15. 586314644342588
     , 14.914321454954736, 14.
     224530008104113, 15.067793150006988,
     14.74695352860439, 14.67494464803625,
     14. 546389750492425, 15. 222350303037667
     , 15. 268120578777642, 14.
     655615774201758, 14.983844764438675,
     14. 98603007675689, 14. 666177964504854
      14.772739628214895, 14.
     671485945030495, 14.28670640050629, 14
     . 974549623183263, 15. 27915953853984,
     14. 956374003563399, 14. 614942565376376
       14.653131125885764, 16.
     693993396965073, 15.08943341690817, 14
     . 944636615706079, 14. 935834325390097,
     14. 377803890793412,14. 290367841720581
       14. 713466991612941, 14.
     538396423245654, 14.668502863542534,
     15.838940815425213, 15.247397278562005
     , 14.836265034145779, 14.
     139433454584193, 14.557856559753418,
```

```
7677 14.62717381524451, 14.968919437608601
       14. 323754869861368, 15.
     633789359787365, 14.393771242212367,
     14. 231245982794114, 14. 92624999858715
      14. 433099464133933, 14.
     678840849134657, 14.691156440311008,
     15. 421531624264187,14. 80414347001064
     , 15. 257481033419385, 14.
     907297458177732, 14.772731286508066,
     15. 127532882454954, 15. 421754813488619
     , 15.127078739213355, 14.
     942258593476849, 14.998264839619766,
     14. 472733839058582, 14. 651588280995687
     , 14.430947904233578, 14.
     08938178309688, 14.501925386028525, 15
     . 54329138184771,   14. 760826104952965,
     14. 547981691949161, 15. 536835187747155
       15.06297579591657, 15.
     268498812928613, 14.736388620035148,
     15. 196813568656827,14. 67370816219000°
     , 14.708255885559836, 14.
     444797877912167, 15.642130917237129,
     14. 967993194674268,14. 519213592564618
     14. 353803564001012, 15.
```

```
7677 349948279651596, 16.49636102752921, 14
     . 407670939410174, 14. 122049081472703,
     13.826108211352501, 13.930221952038046
     <u> 14. 17532241050108, 14.</u>
     817647008248317, 14.874245596520694,
     14. 798416983934096, 14. 354878198953323
     , 14.443442353495845, 14.
     074515710642308,14.515956437146222,
     15. 325530481927188, 14. 701418373319838
     , 14.70903562027731, 14.
     505720803767074, 14.962520949634506,
     14. 548183188026334,14. 23601421897794
       14. 906121065587174, 14.
     965976949091312, 14.423506750000847,
     13. 9326394987695, 14. 429380752422192,
     14.730486469504275, 15.283808374110563
     , 14.846320411305369, 14.
     968152634891464, 15.186694233505815,
     15. 718290802873211, 14. 449313234399867
      14. 339380847083198, 15.
     639862846445155, 14.961426561261401,
     15. 417418585883247,   15. 665473361074188
     , 15. 592129362954033, 15.
     05953742839672, 15.062296346381858, 14
```

```
7677 . 838403242605704, 15. 254176931616701,
     15. 123835716718508, 14. 879726551197193
     , 14.826469268327878, 14.
     241237240073122, 14.65879284599681, 13
     . 814222824426345, 14. 068379060721691,
     14. 05421746218646, 14. 828623765780602
     , 13.891955316802601, 14.
     513236893547905, 14.1604165147852, 15.
     444365430761266, 13.879957358042398,
     14. 377061599566613,13. 892030665903915
     13.591294624187329, 13.
     838090355013623, 14.020851594430429,
     14. 350114820915977, 13. 718672266712895
     , 14.507125124519254, 15.
     614664292629854, 14.557688565901769,
     14.468186778786741, 14.445338943858205
     , 14.529903882815514, 14.
     437931525854417,14.817072931631111,
     14. 051649393858733, 14. 297413056279407
       14.882402581933103, 14.
     147702081703846, 14.006233230049228,
     14.605655517107175, 14.93062029355838
     , 14.776116572780374, 14.
     586722549097038, 14.378783252504137,
```

```
7677 14. 56854439517598, 14. 033600554054166
       14.56050549907449, 14.
     779374614173983, 15.016921078717267,
     14. 184702708397383,14. 381407455161765
      14. 194033669836728, 14.
     241482122444813, 14.764574845631918,
     14. 672617429568444, 14. 227432698379328
     , 14.280026447625808, 14.
     17795623378989, 15.286023163501127, 14
     . 751133683287067,14. 796651263295868,
     14. 28316121042<u>5106</u>, 14. <u>1826770217</u>33037
      14.140413443247477, 14.
     073728367134377, 13.723719902980475,
     13.863570351659515, 14.29120299551222
     , 13.908359524644451, 14.
     176609324820248, 14.250889822288796<u>,</u>
     15. 411220866956828, 13. 882800820433063
      , 13.883403572035425, 14.
     001436318880247,14.838569242277263,
     14. 087574717439251, 15. 068573554356893
     , 14.086887353732262, 14.
     49681227295487, 13.752272953221828, 13
     . 92698261472914, 14. 083688806604457,
     14. 143181000226809,13. 83501539701297
```

```
7677 , 14.121058552353471, 14.
     101465307636026, 14.226496837757251,
     14. 052337299158543, 14. 647651389793113
      14. 378481167334098, 14.
     804231325785318,14.665986373100752,
     14.12970236790033, 14.04015705909258,
     14. 332956949869791,14. 13952899273531
     , 14. 79664002230138, 15.
     517209902221774, 14.79614144784433, 14
     . 570941730781838,14. 340640662628928,
     14. 229906035058292, 14. 40641399960459
      14. 21451<u>6330648351,  </u>14.
     358859068081703, 14.523530509736803,
     14. 394207821951973, 14. 221232540813492
     , 14. 910772723916136, 14.
     836280899283327, 15.049306642862014,
     14. 211198009090658, 15. 218928684423,
     14.007420366193042, 14.001708030700684
      15.003646219218219, 14.
     344939178890652, 15.396806499104441,
     14. 620509266853333, 13. 615152594483929
     , 13.601662950015362, 14.
     010562914389151, 13.81886433819194, 14
     . 414944205019209, 14. 05702958577945,
```

```
7677 13.829669534424205, 14.256126668718126
       13.886526352093544, 14.
     372229758604073, 14.350540331852288,
     14. 355766655486306, 14. 695707833325422
     , 14.337988688621992, 14.
     265602618087957, 14.113871285944809,
     14.46155470388907, 14.354619367623036
     , 14.108616740615279, 14.
     372293322174638, 14.61413327264197, 13
     . 97264920340644, 15. 52575879626804, 14
     . 204302252074818, 14. 00514277116752,
     14. 107449051774578, 13. 76037535255338
       13. 96801386350467, 13.
     872087443316424, 13.665105955100353,
     14.62396901919518, 13.719985885384641
       13.74412727355957, 13.
     811804912708423, 14.632242037926192,
     13. 61591778272464,13. 679214147873866
     , 13.755397266811794, 13.
     671631336212158, 13.873283097773422,
     13. 729960588761317, 13. 343727506237265
     , 14. 268898905059437, 13.
     709880867122132, 12.980124138019702,
     13. 200490869121786, 13. 93689755745876
```

```
7677 , 13. 436860885149168, 13.
     41785681689227, 13.258643185650861, 16
     . 43494686079614,13. 96262675155828,14
     . 075203660093708, 13. 994391252965103,
     14.003576949790672, 14.76269147719866
       13.940180019096092, 14.
     156429673418586, 15.064364389136985,
     13.815199375152588, 13.993795338972115
     , 14.830631450370506, 13.
     861002315709621, 14.411277141100095,
     14. 131527812392623, 13. 634403476008663
     , 13.766508020000693, 14.
     191039317919884, 13.796706240854146,
     14. 976504027107616, 14. 2971513889<u>45403</u>
     , 14.126220915052626, 13.
     986402334990325, 13.620020236498044,
     13.640765243106419, 13.485789522712613
      13.405197802885079, 13.
     52279171825927, 13.851621745545188, 14
     . 205175994355002,14. 267796846083654,
     14. 08908321828018,14. 068135120250561
     , 15.047382225225002, 14.
     527844858758243, 14.111521909266342,
     13.878775472994205, 13.665553039974636
```

```
7677 , 14.308341344197592, 13.
     981667442086302, 14.593576390066264,
     14. 753450593830626, 14. 549999157587687
     , 13.795981142255995, 14.
     134327199723986, 14.742324493549487,
     14. 3951157581659,13. 921349266429006,
     13. 814864111535343,13. 622393784699616
     , 13.506638750617887, 13.
     48105306389891, 13.425119788558394, 13
     . 512443047982675, 13. 491962844942822,
     15. 097749368644054,13. 93102858979025
     , 13.343104574415419, 14.
     141667513199794, 13.564124130908354,
     13. 907854245032793, 14. 279260770774181
       14. 77371531357, 14. 196158750557606,
     14. 171656196500049, 14. 531253579222126
      13.942731280385711, 15.
     062895203814094, 14.797190148153422,
     14. 9329986866660955, 13. 912903397171586
     , 13.863614582721098, 14.
     03311397999893, 14.233241728794427, 14
     . 03427921106786, 13. 820054719477524,
     13. 322473737928602,13. 529058379891477
      13.672469351026747, 13.
```

```
7677 513925087304763, 13.547891893504579,
     13. 78335345527272, 13. 481812341713612
     , 14.431335796544582, 13.
     969234301720137, 13.31858796837889, 13
     . 609963711397148, 13. 091644763946533,
     13. 148067568555291, 13. 441832577740705
     , 14.588403482496002, 14.
     348999500274658, 13.40050474213965, 13
     . 587134261190155, 13. 916625614519473,
     13. 36184913729444, 14. 144440642109624
     , 14.646860405250832, 13.
     933975867283197, 13.505870309876807,
     14. 685846558323613,13. 712282392713758
     , 13.611469957563612, 15.
     130415848743768, 13.51302832585794, 13
     . 466841450443974,13. 128883762124143,
     13. 295658617843817,13. 334142414140112
     , 12.975117224234122, 13.
     026507333472923, 12.750591378153107,
     13.81716024728469, 12.9932553620986,
     14. 038909642784684,13. 852373441060385
     , 14. 169771675710324, 13.
     245099591620175, 15.006900757919123,
     13. 306986779342463,13. 574438477739875
```

```
7677 , 13.071513387891981, 13.
     237460960576565, 13.19481626557715, 13
      778997892214928, 13.214382495409177,
     13. 03278938340552,12. 917170771846065
     , 13.074822749620603, 14.
     217394815550911, 13.989484906196594,
     12. 836426475901662,13. 186925740889562
     , 13.895519965<u>960656, 1</u>4.
     55251364943422, 13.353223771224787, 13
     . 454828250555344,13. 782872096991833,
     13. 289043844482045, 13. 121108464252801
      14. 081794885205634,12.
     908306998971067, 13.529456201894783,
     13. 085625530760964,12. 837337835335438
     , 12. 90139447906871, 13. <u>2849852</u>7738783
      - 13. 367595051541741,   13.
     171428851139398, 13.039100346741852,
     13. 144022305806478, 15. 463316313278527
      14.006804192507708, 14.
     644105987784304, 13.363138504970221,
     13. 324113539707513, 13. 690407217284779
     , 13. 19093456386048, 13.
     347218166162937, 13.130172703001234,
     13. 269163749836109, 13. 360739407715974
```

```
7677
```

```
, 13.7739<u>820480</u>34668, 13.
479447199974532, 13.240629249148899,
13.547598279552695, 13.781508375097204
  14. 360449452459076, 13.
242352032367094, 13.100015607880957,
13. 291302583835742, 13. 721308331430695
, 13.111168443420787, 13.
166471546078906, 13.24446283740762, 13
. 139908484470697,13. 08545567665571,
12. 986430020979894,13. 02358516057332<sub>4</sub>
- 13. 414751865245679,   13.
324021345303382, 13.82510284141258, 14
. 046816796432307,14. 245514428174054,
13. 444789715755133, 14. 056388272179497
, 13.957318394272416, 13.
563406867745481, 14.208432680294838,
13. 792972446959695, 13. 765940854578842
, 14.130276644671405, 15.
191287697097401, 14.124982598387165,
13. 434590875366588, 13. 323919561174181
, 13.140981318038186, 13.3233206478166
  13. 310487111409506, 13.
407004656615081, 13.72499203093258, 13
. 406573363292365, 13. 516341627379994,
```

```
7677 14. 415350398899596, 13. 54802198468903
     , 13.278579717800941, 13.
     219242973092161, 13.428609915721564,
     13. 466418963891488,13. 243532045387928
     , 13.060903549194336, 13.
     090614103976591, 13.2521294546716, 13.
     362044581660518, 13.640729386129497,
     13. 318046045892032,13. 473225369865512
     , 13.64290193863857, 13.28940584630142
     , 13.259587305563468, 13.
     928571347837094, 13.91581286618739, 13
     . 691682803778, 13. 556333853874678, 13.
     580004409507469, 13.448172669351838,
     13. 265551823156851,12. 871198548210991
     , 12.716053344585278, 13.
     162513921290268, 13.06707352767756, 13
     13. 381485067767862,13. 53816639346841
     , 12.968048637295947, 12.
     796010635517261, 12.85417397816976, 12
     . 75273984744225, 12. 957007985056183,
     13. 127171981481858, 12. 632723561039677
     , 12.749185429679024, 14.
     210371257346353, 12.463638028980773,
```

```
12. 728811740875244, 12. 45501086741318
7677
     , 13.059294624093138, 13.
     308651314841377, 12.942330442828897,
     13.84164200005708, 13.316834443881188
      14. 217927973947408,13.
     620976936669997, 12.969226907800746,
     13. 545792017453982,13. 375142121020659
     13. 4512164681046<u>1</u>, 1<u>3</u>.
     342887607621558, 13.109209543392982,
     12. 965799319891282,   13. 782923963334826
     12. 95548023412257, <u>1</u>2.
     908447000715467, 13.179433445871613,
     13. 474579293050883,13. 539485678260709
     , 13.69952811135186, 13.
     574243162885125,12.925164811405136,
     13.419676586433694, 14.5718658235338,
     14. 07504399617513,12. 871126263229936
      13. 479666096192819, 13.
     05592985212067,12.735692589371293,12
     . 859420034620497, 13. 14198754157549,
     13. 181258601906858, 13. 944897438273017
     , 12.709281974368626, 12.
     84469645700337, 12.92394976557037, 13.
     315098509376432, 13.344757227250087,
```

```
7677 12. 942388204880702, 13. 19654248378895
     , 12.713382732721023, 12.
     621651284488632, 12.933172761658092,
     13. 209118372128334, 12. 751347753736708
     , 13.311633769376778, 13.
     143955572151844, 13.061736521897492,
     14. 000280183038594,12. 852661041565883
     13. 74315071105957, 12.
     830337795210474, 13.624901995246793,
     13. 350200676623686, 12. 968895264613776
     , 12.788525292902817, 12.
     754205839133556, 12.968593738697193,
     13. 168989006383919, 12. 981882766441062
     , 13.034277636327861, 13.
     752315964227842, 13.576356349168, 12.
     716772465058314, 12.579977412282684,
     13. 162410939181292, 13. 263434828063588
      13.698676215277779, 13.
     37862621118993, 13.244762470692764, 13
     . 458205929508916,13. 607543756932388,
     13. 716475233619596, 13. 282564975597241
     , 13.914316863189509, 12.
     95196106404434, 13.480306254492866, 14
     . 514416790302889,13. 274117122461766,
```

```
7677 12. 578391551971436, 12. 593533568912083
      , 13.41731920948735, 12.63840491094707
       <u>13. 05403788295793,   12.</u>
     122076093414684, 12.767329763483119,
     13. 575231387291426,   12. 492572996351454
     , 12.930363961208014, 12.
     900898627292962, 12.776778374189211,
     12. 43709773193171, 13. 577808662697121
     , 14.731802971274764, 13.
     069628485926875, 13.05202063219047, 12
     . 873609107217671, 12. 831390722298329,
     12. 996957578776795, 13. 768045092806403
     , 12.83279232919952, 12.
     744979752434624, 12.977727595670723,
     13. 35529754779957,12. 886830612465188
     , 13.687976401529195, 12.
     967782338460287, 13.367464306913776,
     13. 346100465750988,13. 08475532060788
       15.032989769806097, 13.4060070367507
       14.010672127759015, 13.
     848906252119276, 13.382412274678549,
     13. 52614024833<u>3967</u>, 13. 2503901705<u>3298</u>1
     , 13.879937560470015, 13.
     729253462803216, 13.255377298519935,
```

```
7677 13. 395592807251731, 13. 416245619455973
     , 13.507393507309901, 14.
     097616172131197, 13.260387585486894,
     13. 572641714119618,13. 321773287690716
     , 13.440232265142747, 13.
     32058745254705, 14.15674325566233, 13.
     43419497690083, 13.263980312111936, 14
     . 03304734642123, 13. 210196000558359,
     13. 277526054853274, 13. 581924567987<u>889</u>
     , 13.761565855991693, 13.
     928226117734555, 13.934390927538459,
     14. 397007795027745, 15. 470517073148562
       13.424161004431454, 13.
     833446025848389,13.403752362286603,
     13.687693277994791, 13.542468848051849
     , 13.384909676916806, 13.
     119155236232428, 13.103746908682364,
     12. 906269862328047,13. 691623034300628
      13.368797437644298, 13.
     55234843124578, 13.279551765065134, 13
     . 200191727390996, 13. 12454339015631,
     13. 89684432229878,13. 706747275811654
     , 13.152750497982826, 13.
     131043398821795, 13.112802567305389,
```

```
7677 12. 970589113824161, 13. 148158685660656
     , 14.423411419362198, 13.
     441372471091189, 13.167284005953942,
     13. 327631367577446, 12. 43127934726668
      12. 386653711766373, 12.
     346484619894145, 12.938751950676059,
     12.503019191600659, 12.702659477422268
     , 12.598224887141475, 12.
     717885988729972, 13.14921384976234, 13
     . 178142023675235, 13. 479405141171114,
     12. 877575120808165, 12. 903137566130837
       13.65187351791947, 13.35144437978297
       13. 196183834546877, 12.
     748377122996766,12.806486853846797,
     13.038250452206459, 13.076617046638772
     , 13.137669816429232, 13.
     261622587839762, 13.134301797843273,
     13. 705176998067785, 12. 578306875111144
       -12.5360964021565, 12.566063692540299
       12. 427949405010835, 13.
     232999660350659, 12.696923585585607,
     13. 519648601979386, 12. 736522651013033
     , 12.735470041816617, 13.
     40174420674642, 12.936796918327426, 12
```

```
File - boston01
7677 . 702981937078782, 12. 971591890594105,
     13. 714497572110023, 12. 880691098578183
      , 13. 385058968155473, 13.
     849763817257351, 13.100991696487238,
     13. 253821084528793, 13. 217449638578627
       13.061645366527417, 12.
     839076142252228, 12.624477133338834,
     12. 51841515670588, 13. 720571328092504
      , 13.055571185217964, 13.
     006876933721848, 12.5472250867773, 12.
     89454084561195<u>, 12.69673213841002</u>7, 12
      . 618257775718783, 12. 821204950780045,
     13. 062763590871551, 13. 581245716707206
      , 12.885129846172568, 13.
     567739610318784, 12.633395730713268,
     13. 882229066189424, 12. 852351889198209
      12.56489881468408, 12.
     455655339323444, 12.517247241220357,
     13. 212383399774998, 12. 819997128145195
      , 13.199797341853012, 12.
     831741662673009, 12.54176766195415, 12
```

, 12.51837862862481, 12.

. 612896577811535, 12. 371629844477146,

12. 267434355653362, 13. 070439212116195

```
796466609578074, 12.551202332531965,
7677
     13.50284234388375, 12.8517064165186,
     13.600815260851824, 12.67372155483858
     , 13.1562002028948, 12.691042281963208
      13. 114865220623251, 12.
     916864536426685, 12.789972340619123,
     13. 20478809615712, 12. 764141909870101
     , 13.706495198202722, 12.
     609041970453145, 12.91057453626468, 12
     <u>. 459881205617645,   12. 549837683453973,</u>
     12. 411102618700193, 12. 264632407529854
      12. 54884<u>610352</u>6929, <u>12.</u>
     96805512463605, 12.562084512946047, 13
     . 479874204706263    13. 468153211805555.
     13. 115958549358227, 12. 832247781164853
     , 12.724797443107322, 13.
     469505033375304, 12.93100384723993, 12
     . 41326492804068,12. 43351392392759,13
     . 230785773124223,12. 544523892579255,
     12.631095821474805, 12.954013624309022
     , 12.644105634571593, 12.
     543913240785953, 12.873069869147407,
     12.885488739720097, 12.5718383376981,
     13.446985868760096, 14.024985751987975
```

```
7677
```

```
, 12.730585098266602, 12.
996760733333634, 13.303216569217636,
13. 118240668449873,13. 356686851124705
 12.892509124897144, 12.
81713451573878, 12.833263450198704, 12
. 839767456054688,12. 908143367296384,
12. 845515192290883,12. 814625510463008
, 12.818608236901<u>554</u>, 1<u>2</u>.
802144156561958,12.865649064381918,
12.778726177451052, 12.729629222257637
  12.80480988820394, 12.
693964728602657, 12.69578770649286, 12
. 707358701729481, 12. 703168910226704,
12. 714677657610105, 12. 70541469550427
, 12.718295674265168, 12.
791491796940933, 12.82121009591185, 12
. 827054117932732, 12. 779565846478498,
12. 768744715937862, 12. 84579477781131
 12.779284212324354, 12.
815628510934335, 12.781648565221715,
12.802482157577703, 12.71084232094847
, 12.6<del>7169436113334,</del> 12.
726283232371012, 12.736268932436719,
12. 764401112073733,   12. 77698789996865
```

```
7677 , 12.808173415101605, 12.
     812716996228254, 12.751567404947163,
     12.67380611984818, 12.663508650697308
     12.679386692282595, 12.
     691787919880431, 12.63894436094496, 12
     . 700328750374876, 12. 681687979050624,
     12. 742135889736222, 12. 70952683907968
     , 12.710443167038905, 12.
     856840168988263, 12.864564860308612,
     12. 776433844625213,12. 72134226339834<sup>°</sup>
     , 12.723172546904763, 12.
     734390005653287, 12.609152111006372,
     12. 678726761429399, 12. 77036264796316
     , 12.692737932558414, 12.
     655597280572962, 12.751075197149206,
     12.692742706816873, 12.601611060860716
     , 12.593544595035507, 12.
     532158498410825, 12.498820669857071,
     12. 520134572629575, 12. 521365677868879
     , 12.550917660748517, 12.
     555103914237316, 12.545297622680664,
     12. 549927405369134, 12. 529783190032582
     , 12.64313213913529, 12.65010020762314
      12.664788399213625, 12.
```

```
7677 668149724418734, 12.57256845191673, 12
     . 617619019967538, 12. 589210210023102,
     12. 552322387695312, 12. 601696332295736
       12.601148946785633, <u>1</u>2.
     60337018377987, 12.5965082851457, 12.
     591322710484635, 12.660405877195759,
     12. 772265528455193, 12. 635299135137487
     , 12.673578750940017, 12.
     695208938033492, 12.694680007887476,
     12.667453188955047, 12.679787506291897
     , 12.651388527434548, 12.
     57710067136788, 12.541143334942099, 12
     . 557109491324718,12. 583028457782886,
     12.642845424605005, 12.586094720864002
     , 12.571519086390365, 12.
     645716572985236, 12.733640394093078,
     12. 673793539588834,12. 73549031033928
      12. 73884493627666, 12. 76425932071827
       12.715335174843117, 12.
     64278014500936, 12.67459334856198, 12.
     52977822739401, 12.551198464852792, 12
     . 68976812598146, 12. 764023680745819,
     12. 769539438647989, 12. 7773543993632,
     12.659605626706723, 12.623089242864538
```

```
7677 , 12.597949192847734, 12.
     581070876415865, 12.504124305866382,
     12. 5226496413902,12. 545044057163192,
     12.542633715971016, 12.521729098425972
     , 12.520311108341923, 12.
     558597023104443, 12.603965258892671,
     12.637655258178711, 12.613559852411717
     , 12.635478<u>20809</u>4467, 12.
     656375602439597, 12.6026693567817<u>6,</u> 12
     . 677608336931394,12. 602473200103383,
     12. 587934258543415, 12. 622129063547394
      12. 55977091965852<u>,</u> 12.
     583943349343759, 12.602404082262957,
     12. 588641702392955, 12. 59997836454415
     , 12.5786955739245, 12.61071753796236
       12. 595192791503152, 12.
     64640759833065, 12.662294705708822, 12
     . 606557793087429, 12. 566362292678267,
     12. 557277903144742, 12. 655288525569587
     , 12.750726640960316, 12.
     697718131689378, 12.698267801308338,
     12.690386577888772, 12.594352616204155
     , 12.583630550054856, 12.
     66196624143624, 12.705402792235951, 12
```

```
File - boston01
7677 . 71529746349947 , 12. 743193626403809 ,
     12. 753115065303849, 12. 774445892852029
      , 12.799212249708765, 12.
     770232106432502, 12.678101304136677,
     12.617099879700461, 12.680514217894753
       12.674242208033432, 12.
     644037658785596, 12.64274470600081, 12
      . 638616685514096,12. 680000193325089,
     12.624546704468903, 12.649640089199867
      , 12.740611323603877, 12.
     696962886386448, 12.667323760044427,
     12. 79027760470355, 12. 808766883096578
      , 12.898883754824414, 12.
     810427695144842, 12.79936718646391, 12
      . 730934690546107, 12. 808455908740008,
     12.814286290863414, 12.748733043670654
      , 12.635517962184952, 12.
     628155449290334, 12.611794883822217,
     12.627236536991449, 12.58125709015646
      , 12.637971819182972, 12.
```

708771994084488, 12.66141077912884, 12 . 700449325420239, 12. 69940236762718, 12. 791751390621986, 12. 732839278232904 , 12.875599084077058, 12.

```
854093074798584, 12.848610760253152,
7677
     12. 841176921938672,12. 831149148352353
     , 12.832324181073977, 12.
     83444216221939, 12.81575917608944, 12.
     803165188542119,12.800330262125275,
     12.802791936897938, 12.792273803993508
     , 12. 798493591355689, 12.
     792296138810523, 12.794667408790117,
     12. 783434355700457, 12. 769531426606354
     , 12.766870475109712, 12.
     770674211007577, 12.772396364329774,
     12. 782909122514136, 12. 78916019863552!
     , 12.775832029036534, 12.
     783889676317756, 12.783337440019773,
     12.775974556251809, 12.767071135250138
     , 12.767601101486772, 12.
     770143873897599, 12. 765192891344611,
     12. 768177627045432, 12. 765412519007553
      12.75579575550409, 12.
     746178179611395, 12.739141505441548,
     12. 725536717308891, 12. 720823758914147
     , 12.721998426649305, 12.
     720687501224472, 12.716032516809157,
     12. 715477737379663, 12. 69515220029854<sup>,</sup>
```

```
7677 , 12.697027848090654, 12.
     708433910652444, 12.713180783354206,
     12. 714884752108727, 12. 706345699451587
      12.71403788342888, 12.
     712872993798904, 12.713442820089835,
     12. 71557828526438, 12. 724269996454685
     , 12.729493629785232, 12.
     724570598131345, 12.731226244090516,
     12. 73110200151985, 12. 735768842108456
     , 12.726570512041633, 12.
     70785618417057, 12.701878959749951, 12
     . 700465667394944, 12. 711857424841988,
     12.7052108446757, 12.70026425373407,
     12.709068698647581, 12.716045933005251
     , 12.713992648654514, 12.
     711040061197163, 12.704403270909816,
     12. 701867815888958, 12. 699156937775788
      12.697057429655098, 12.
     694911892031445, 12.714171827575306,
     12. 719672515068526, 12. 71314861156322<sup>4</sup>
     , 12.712030763979312, 12.
     702151363278613, 12.695471581117607,
     12. 704716211483802, 12. 709148271584217
     , 12.696208712495404, 12.
```

```
7677 703571608037125, 12.696853973247388,
     12.689467188752728, 12.694809407363703
     , 12.708655875406148, 12.
     70840827918347, 12.699001282821467, 12
     . 701058917575413, 12. 701297565742776,
     12. 68458072638806,12. 679987018491016
      12.685618712578291, 12.6821819882334
       12.680901474422878, 12.
     679970211452908,12.685778747370213,
     12.682730598214231, 12.68093950954484
       12.68977967603707, 12.
     694100585984595, 12.694963655354064,
     12. 695459854455642, 12. 693251686331667
     , 12.687584305986945, 12.
     677373079606044, 12.675381142416118,
     12.678713886826127, 12.674814571568996
      12.67588252785765, 12.
     675328802179408, 12.675216309818222,
     12.67568118483932, 12.670661902722017
      12.680835353003609, 12.
     670889960394966, 12.678638075604852,
     12.685288711830422, 12.683079383991382
       12.673059740184266, 12.
     663162796585649,12.6691301840323,12.
```

```
7677 671013708467838, 12.676312893997004,
     12.669507992120437, 12.674451474790219
       12.67061408949487, 12.
     670839845398326, 12.671444845788272,
     12.673028374895637, 12.678054768362163
       12.670247036733745, 12.
     658949492890159, 12.657415036801938,
     12.668425883775877, 12.670883431846713
       12.670048554738363, 12.
     66884128547009, 12.66271510536288, 12.
     664067533281115, 12.666837609844443,
     12.659681738158802, 12.661000381281346
       12.66770577725069, 12.
     669917041872754, 12.670310650342776,
     12.664494343745856, 12.659292332920028
       12.658859582594884, 12.
     650643943268577, 12.646258536680245,
     12.649254740020375, 12.658106209319314
      12.652874887725453, 12.
     65620274602631, 12.653032920978687, 12
     . 653739552438996,12. 659087993480542,
     12.661585066053602, 12.651616702845066
     , 12.654645030881152, 12.
     657164302873023, 12.657542946897907,
```

```
7677 12.672186992786548, 12.680120373949592
       12.681133099544196, 12.
     68129375834524, 12.682343029681547, 12
     . 678356264844354,12. 681619438124292,
     12.678111871083578, 12.683410303092296
       12.701939947811173, 12.
     704364229131627, 12.716774834526909,
     12.71644029499572, 12.71339428866351,
     12. 706309730623975, 12. 709156872313699
     , 12.703560617234972, 12.
     695338631853645, 12.697905793602084,
     12. 704173211698178, 12. 707012547387016
     , 12.71138236552109, 12.
     708723444997528,12.711093743642172,
     12.712845413773149, 12.694108062320286
       12.695606679092219, 12.
     687981652624813, 12.6877992<u>300339</u>69,
     12. 68911533591188, 12. 688537591769371
      - 12. 682907793256971,   12.
     682785263767949, 12.690172813556812,
     12. 700647165745865, 12. 69828004601561
     , 12.701932777593166, 12.
     70248391893175, 12.70253019568361, 12.
     702142903834213, 12.702065662101463,
```

```
12.701760892514828, 12.70278493857678
7677
     , 12.702053440941704, 12.
     701445120352286, 12.701399832596014,
     12. 700667546119218, 12. 700607393994744
     , 12.701102621761368, 12.
     701378757570996, 12.701155256342005,
     12. 701515109450728, 12. 70195381729691
     , 12.701388865341375, 12.
     702675895926394, 12.702971617380777,
     12. 704157317126239, 12. 704356464338892
     , 12.705041420312575, 12.
     705160388240108, 12.70555497393196, 12
     . 705719188407615, 12. 706057895848781,
     12. 7073442141215, 12. 707394817729055,
     12.70762507709456, 12.708091417948404
     , 12.707645475128551, 12.
     707557825394618, 12.707604155128385,
     12.707994990878635, 12.70824506547716
     , 12.708452607378547, 12.
     708609304310363, 12.708771623211142,
     12. 708353672498538, 12. 708129341219678
     , 12.708122394703052, 12.
     70904020615566, 12.71003724321907, 12.
     710553693182675, 12.709694438510471,
```

```
7677 12. 708711453426032, 12. 708769662880604
       12. 70826811849335, 12. 70772550135483
       12.708129770961808, 12.
     709251798229452, 12.70928199791614, 12
     . 708676273440137, 12. 70812154110567,
     12. 707149905922972, 12. 70713801442841
     , 12.706395319950433, 12.
     706950458479517, 12.706924515005984,
     12.707842014454029, 12.708246201644709
     , 12.708423267176121, 12.
     708287562853025, 12.708719341843217,
     12. 709697052284524, 12. 709619263072073
     , 12.710139616036122, 12.
     710690386501359,12.71021091790847,12
     . 710139062669542, 12. 710666744797319,
     12. 710551061747987, 12. 71032084359063
     , 12.709595421214162, 12.
     709866164643088, 12.709619092352597,
     12.709449485496238, 12.708102850266444
     , 12.70837104467698, 12.
     708779340908851, 12.708566812821376,
     12. 707841849621431, 12. 708888471862416
     , 12.708751448878536, 12.
     708695476437793, 12.709666475837613,
```

```
7677 12.709980729185505, 12.710242471577208
     , 12.71017637959233, 12.
     709950435308762, 12.710867057611912,
     12. 711526758876847, 12. 710624223873939
     , 12.711719783735864, 12.
     710532253171191, 12.711041173817199,
     12. 711387510652896, 12. 71050363705482
     , 12.710743615656723, 12.
     711625375865419, 12.711856135615596,
     12.711460060543484, 12.711677103866766
     . 12.711493203669418. 12.
     71257327515402, 12.712497981978052, 12
     . 713602872542394, 12. 714163585945412,
     12.714880360497368, 12.71477245401453
     , 12.71632710798287, 12.71709117182979
       12.716772309056035, 12.
     716874051977086, 12.716413450829776,
     12. 716141441721975, 12. 71663436771911
      12.715413487987753, 12.
     71617904121493, 12.716255211535795, 12
     . 716225865446491, 12. 716363000281063,
     12. 715511734102979, 12. 715340737943295
     , 12.715121169149139, 12.
     716007456367398, 12.716618043405038,
```

```
12.717360849733707, 12.71727336483237
7677
     , 12.716061898219733, 12.
     715163030742128, 12.714826112912025,
     12. 71451891793145, 12. 714669262921369
     , 12.715174545476467, 12.
     715641439696888, 12.71471333798067, 12
     . 714931323204512,12. 714191360238157,
     12. 713209140447923, 12. 712680651817793
     , 12.713370941303394, 12.
     714523044633276, 12.713233264876001,
     12. 712747250074221, 12. 712487167782253
      12.712508884477026, 12.
     712973041298948, 12.713276221428389,
     12.713165683510862, 12.714467631445991
     , 12.713932885064018, 12.
     714744497228551, 12.714887077425733,
     12. 715286466810438, 12. 71555722201312
     , 12.715910982202601, 12.
     716313073664535, 12.716471813343189,
     12. 716773804323173, 12. 71693061310568
       12.7173086448952, 12.717167365698167
       12. 71677968531479, 12.
     716367639141318, 12.71652560175201, 12
     716394518628533, 12.715647956471384,
```

```
12. 71590417108418, 12. 715752884193703
7677
     , 12.716225058944136, 12.
     716898765093015, 12.717838240258487,
     12. 717621402975954, 12. 717737097799041
     , 12.718916027634233, 12.
     719218495451374, 12.718489599816593,
     12. 717710077026744, 12. 717956654819442
     , 12.718510586538432, 12.
     71856881365364, 12.718727459142238, 12
     . 718454643532082,12. 717736815228875,
     12. 717265829627896, 12. 716726361969371
     , 12.716415634861699, 12.
     715553130632566, 12.715241967895885,
     12. 716174525979124,   12. 71552022886865
     , 12.715985339364888, 12.
     715320463533756, 12.715103602703707,
     12.715923067964154, 12.71536401466087
     , 12.715276129451798, 12.
     715455891173562, 12.71616902174773, 12
     . 715798007117378, 12. 715630643161727,
     12. 714943862255708, 12. 715330318168357
     , 12.714495140829204, 12.
     713879461641666, 12.713982476128471,
     12. 713970572860152, 12. 71278276561219
```

```
7677 , 12.713204748836564, 12.
     713921270252746, 12.713737370055398,
     12. 713633437215545, 12. 71298309608742
     , 12.713383068273098, 12.
     713421568458463, 12.71302710639106, 12
     . 714179922033239, 12. 714185067165046,
     12. 715348891270013, 12. 715505358613568
     , 12.715928578082426, 12.
     715167487109149, 12.715318426673795,
     12. 714036152686601, 12. 713717130967128
     , 12.713730859167782, 12.
     713504914884213, 12.71373877701936,
     . 7136902279324, 12. 713530828923355, 12
     . 712932374742296, 12. 713490439049991,
     12.713520138352006, 12.712725150732346
     , 12.713523234850095, 12.
     712734204751474, 12.712524084397304,
     12.712487750583225, 12.713280860288643
     , 12.713586224450005, 12.
     713221850218597, 12. 712535981778744,
     12. 712684172171134, 12. 71320182894483
     , 12.71189299924874, 12.
     711808104573944, 12.712103761272665,
     12. 712233849513678, 12. 71380203741568
```

```
7677 , 12.713799082202677, 12.
     713736133810915, 12.71431690969585, 12
      713971461778806, 12.713261033281867,
     12.712990960957091, 12.714435659808878
     , 12.714201397365994<u>, 12.</u>
     713825402436433, 12.713576369815403,
     12. 713396154803995, 12. 71281718030388
     , 12.712973106054612, 12.
     712807096081015, 12.712509720413774,
     12.713246916547234, 12.71279137222855<sup>°</sup>
     , 12.712740780394753, 12.
     712860631354062, 12.712571320710358,
     12. 712666382024318, 12. 712564132831714
     , 12.712962951189207, 12.
     712972434950464, 12.712713282785298,
     12.712450145203391, 12.71284700911722
     , 12.712634139590794, 12.
     711817417615725, 12.711502922905815,
     12. 711123437057307, 12. 71190529105104
     , 12.711534117474969, 12.
     710343001801292, 12.709514865168819,
     12. 709824226520679, 12. 708886947160886
     , 12.708444954436501, 12.
     708805643481973, 12.709989512408221,
```

```
7677 12.709133984130105, 12.709507718498324
     , 12.710379064818959, 12.
     710597338499847, 12.710527573102786,
     12. 708911407141038, 12. 708663016189764
     , 12.708893440387866, 12.
     70871423791956, 12.707896226718102, 12
     . 707878312946837,12. 70703434061121,
     12.707067289470155, 12.705928967322832
     , 12.705375453572215, 12.
     706302913618677, 12.70608910219169, 12
     . 705633540212371, 12. 704786659758767,
     12. 705405335367463, 12. 705518239810143
     , 12.706019819518666, 12.
     70546974370509, 12.70578000574936, 12.
     706535168635993, 12.706790723918397,
     12. 706986415533372, 12. 706411208635496
     , 12.70569160838186, 12.70559576999994
      12. 70601<u>349701</u>1162, <u>12.</u>
     707037495978085, 12.707725901662567,
     12. 707634101679295, 12. 707211994830473
     , 12.707174872174676, 12.
     706317725004974, 12.706156295022847,
     12. 706026277424376, 12. 705849029399731
      12.705890596648793, 12.
```

```
7677 706269805814014, 12.706458127057111,
     12. 706174897558896, 12. 706442444412797
     , 12.706066031514862, 12.
     706395349384826, 12.70653424439607, 12
     . 70658607247435, 12. 705551777356936,
     12. 705365922715929, 12. 705289163707215
     , 12.704842349629343, 12.
     703900360766752, 12.703035036722818,
     12.702494009041493, 12.702490535783179
     , 12.702446066303018, 12.
     702676472840485, 12.702575559969302,
     12.702285007194236, 12.70312209188202
     , 12.704117975117247, 12.
     703044750072339, 12.704243854240135,
     12.703505050988845, 12.703406322149583
     , 12.702251928823966, 12.
     702481258062669, 12.702138512222856,
     12. 70222591470789, 12. 703199474899858
     , 12.703600412533607, 12.
     703955073415496, 12.704424104572814,
     12. 705336188092645, 12. 705661809002912
     , 12.706358997910112, 12.
     707074024059155, 12.707879460888144,
     12. 707039833068848, 12. 707335425011905
```

```
7677 , 12.706752288488694, 12.
     706343792102954, 12.706051261336714,
     12. 705988960501589, 12. 706851252803096
     12.706882588657333, 12.
     706696386690494, 12.705947369705012,
     12. 70583607238016, 12. 705893940395779
     , 12. 7065131693710<u>52,</u> 12.
     706219484776627, 12.705672322967906,
     12. 705455203115203, 12. 70458549923367
     , 12.704839158941198, 12.
     705581347147623, 12.706133548124336.
     12. 706369517761985, 12. 70681991106198
     , 12.707026946691819, 12.
     70790606369207,12.708224755746347,12
     . 70773583871347, 12. 706741939356297,
     12.706072118547228, 12.705460642590936
     , 12.70493444395654, 12.70485340518716
       12.704529809363095, 12.
     705028898922013, 12.704110928523688,
     12. 703294960069067, 12. 703459839761994
     , 12.703743051599574, 12.
     703744405581627, 12.703559333895459,
     12. 702641805013021, 12. 701830593156226
     , 12.70224890296842, 12.
```

```
7677 701746705137653, 12.701348964078926,
     12.701681042894904, 12.702499672218606
     , 12.702852519941919, 12.
     702205134026798, 12.704033804528507,
     12. 703797452243759, 12. 704211776639209
       12.704741324907468, 12.
     705469649515035, 12.705323601946418,
     12. 705324755774605, 12. 70517721293885
     , 12.706904476071582, 12.
     706854355188064, 12.706831802556545,
     12. 7077496552173, 12. 707686318291557,
     12. 708171926898721, 12. 707968417509102
     , 12.708973354763454, 12.
     71014858763895, 12.709004525785092, 12
     . 708257304297554, 12. 708313741801698,
     12. 707870247923298, 12. 707538286844889
     , 12.706988540696509, 12.
     707820374288676, 12.706876154299136,
     12. 705512335271012, 12. 70593946362719
     , 12.706347418420108, 12.
     707176838392092, 12.707271611249006,
     12.707730063685664, 12.707757272838075
     , 12.707483532987995, 12.
     707308669149139, 12.708339226098708,
```

```
12.70771148469713, 12.708099276931197
7677
     , 12.708463386253074, 12.
     709119973359284, 12.709219173148826,
     12. 71056905793555, 12. 709464444054497
     , 12.710015579506203, 12.
     709811805207053, 12.709551528648094,
     12. 710426889819864, 12. 710315121544731
     , 12.710435219752936, 12.
     710410318256896, 12.711137912891529,
     12. 711088598510365, 12. 710534855171487
     , 12.710166018686177, 12.
     708742224139932, 12.70739221572876, 12
     . 707679513060016,12. 708080739150812,
     12. 707791081181279, 12. 707595436661332
     , 12.706950947090432, 12.
     705662686147807, 12.705919760244864,
     12.706453982694649, 12.705643324204432
     , 12.705266758247658, 12.
     705796742144926, 12.706999296023522,
     12. 706265997003626, 12. 70642261740602°
     , 12.706364731729767, 12.
     70737541457753, 12.708073180398824,
     . 70721353130576, 12. 70772342328672, 12
     708307066081483, 12.708585185769163,
```

```
7677 12.708067275859692, 12.708471386520952
     , 12.709265661828312, 12.
     708637361173276, 12.708261890175901,
     12. 708530125794587, 12. 708653779677404
     , 12.708413730432957, 12.
     70707580189646, 12.706583888442427, 12
     . 705942783826663,12. 705421347676971,
     12. 704657166092485, 12. 705263797147774
     , 12.705828407664358, 12.
     705668102076023, 12.70538466653706, 12
     . 706118271674638, 12. 705691031467767,
     12. 706128985793502, 12. 705354190167085
     , 12.705760208176978, 12.
     705611593929337,12.705895883065683,
     12. 70629659111117, 12. 706663985311248
     , 12.706639024946424, 12.
     706121173905737, 12.705545078089207,
     12. 70529881230107, 12. 705143051382937
     , 12.705219074531838, 12.
     704625883220155, 12.704505679048138,
     12. 705500861744822, 12. 705821208011956
     , 12.706959795068812, 12.
     706422923523704, 12.705483436584473,
     12. 705168588661854, 12. 705148390781732
```

```
7677
```

```
, 12.70581203625526, 12.70510478667271
 12. 704834914501802, 12.
705859066527566, 12.70599098558779, 12
 . 705985369505706, 12. 70522658030192,
12. 705374617635467, 12. 705445377914995
, 12.705143675392057, 12.
705465834817769, 12.706742292569007,
12.706751275945592, 12.706066255216244
, 12.705101796138434, 12.
706157442964154, 12.707045455037811,
12.705902847242944, 12.706673751642674
 12. 707906599398013, 12.
708616250826989, 12.70901651735659, 12
 . 708942825411572, 12. 709529817840199,
12. 709234167028356, 12. 709011219165943
, 12.709221574995253, 12.
708835637127912, 12.7<u>088271</u>364753<u>64,</u>
12. 71077639968307, 12. 710463671036708
, 12.710869377042041, 12.
710350189679934, 12.710525830586752,
12.709943924421145, 12.70948416509746
 , 12.70933081779951, 12.
709703051013712, 12.710479736328125,
12. 711059164117884, 12. 71084322164088
```

```
7677 , 12.710484910894323, 12.
     710912280612522, 12.710927768989846,
     12. 709903275525129, 12. 70933108859592
     , 12.710026140566226, 12.
     71036441826526, 12.71080509232886, 12.
     710538999533947, 12.711255144189906,
     12.710976559438823, 12.710849732528498
     , 12.71054756494216, 12.
     709931832772714, 12.710056140099043,
     12. 709347713140794,   12. 709469465561854
     , 12.709386537104477, 12.
     710050153143612, 12.710191597173244,
     12. 709553989363306, 12. 708990432597973
     , 12.709488085758538, 12.
     709624025556776, 12.710560610264908,
     12. 711918583622685,   12. 71262363151267
     , 12.711532993081175, 12.
     710755536585678, 12.710192592055709,
     12. 709479496802812, 12. 710178822646906
     , 12.709833845680143, 12.
     709388921290268, 12.709626863032211,
     12. 709371908211414, 12. 709588898552788
     , 12.710773220768681, 12.
     710778795642618, 12.71031246656253, 12
```

```
File - boston01
7677 . 710722428781015, 12. 710005159731265,
     12.709314546467345, 12.709232065412733
      , 12.709493383949185, 12.
     709095083637003, 12.70917985468735, 12
      . 708188392497876, 12. 708581006085431,
     12.707922364458625, 12.707087004626239
      , 12.706635239683552, 12.
     705807809476498, 12.707121813738787,
     12. 706601125222665, 12. 707014719645182
      , 12.7072787579195, 12.707145119890754
       12.708305829836998, 12.
     707409228807615, 12.707266212981423,
     12. 707316846023371, 12. 706979374826691
      , 12.706827817139802, 12.
     706719592765525, 12.705873983877677,
     12. 706336198029694, 12. 706833974814709
      , 12.706721264639018, 12.
     706052762490732, 12.70660893711043, 12
      . 70625537118794, 12. 70648538330455, 12
      . 706485512815876, 12. 706732355518106,
     12. 706765157205087, 12. 707033386936894
```

706894350640567, 12.706601454887862,

12.706747926311728, 12.70723340540756₄

, 12. 706570177<u>9024</u>1, 1<u>2.</u>

```
7677 , 12.706914795769585, 12.
     706928106001866, 12.707508834791772,
     12. 707463717754976, 12. 706875583271922
     12.706238134407704, 12.
     705952391212369, 12.706323988643693,
     12. 706420097822024, 12. 707167837354872
     , 12.706539583794864, 12.
     706252133404767, 12.706127461091972,
     12. 705431172877182, 12. 705579651726616
     , 12.705977698903025, 12.
     704829333740989, 12.703967665448602,
     12.70280549555649, 12.70219028731923,
     12. 702422977965554, 12. 701349152459038
     , 12.701533835611226, 12.
     70155241459976, 12.700438417034384, 12
     . 70013850412251,   12. 699648757039764,
     12.699805077211357, 12.700207533659759
       12.699283646948544, 12.
     698637438409122, 12.697934103600772,
     12. 698117315033336, 12. 698012204817784
     , 12.698350294136707, 12.
     697828045597783, 12.69696507041837, 12
     . 69722623589598, 12. 696880717336395,
     12.697696721112287, 12.698091259709111
```

```
7677
```

```
, 12.69818189997732, 12.
698241622359664, 12.697656089876904,
12.698390742878855, 12.698141227533787
 12.698105505955072, 12.
698683232436945, 12.699258969153886,
12.699344558480345, 12.699048324867531
, 12.698871830363332, 12.
699832975128551, 12.699180379325961,
12.698168990052777, 12.699285024478112
, 12.699292871687147, 12.
69817660767355, 12.698538880289338, 12
. 698627672077697, 12. 699107852982886,
12. 699841675934968,12. 699441892129403
 , 12.699340684914295, 12.
699374304877388, 12.700047975704994,
12. 699781741624998, 12. 700988363336634
 , 12.700582180494143, 12.
69923578073949, 12.69912330015206, 12.
699552288761845, 12.699736224280464,
12. 69977331161499, 12. 699600031346451
, 12.699623266855875, 12.
700591946825568, 12.700719368310622,
12. 699752283685001, 12. 700587725933687
 , 12.70022001384217, 12.
```

```
7677 699530177646214, 12.699554808345841,
     12.698434682539952, 12.69780640543243
     , 12.697523246576756, 12.
     697909443466752, 12.698456511085416,
     12.696865570398025, 12.695534488301218
       12.695796807607016, 12.
     695767708766608, 12.695989361515752,
     12.69589720831977, 12.695807892599223
       12.695940253175335, 12.
     695934684188277, 12.695926501427168,
     12.697039162671125, 12.696922596590019
      12.697440683105846, 12.
     696750634982262, 12.6968724757065, 12.
     697430899113785, 12.698889037709177,
     12.699412157506119, 12.699461583737973
       12.697981063230538, 12.
     697502042040412, 12.696559022974085,
     12. 69649905922972,12. 697569346722261
      12.696413028387376, 12.
     696697064387946, 12.696565498540432,
     12. 696608154862016,12. 697073730421655
     , 12.696524308051591, 12.
     69714132356055, 12.695936150021023, 12
     . 695769739739688, 12. 696113103701745,
```

```
7677 12.697005366101678, 12.69728978474935
       12.698018980614933, 12.
     69771220948961, 12.697880662517782, 12
     . 69917078960089,12. 698635213169052,
     12. 699556415463672, 12. 699826699716073
       12.699174722035727, 12.
     699285324708915, 12.697745617525078,
     12. 69823658907855, 12. 698803772161037
       12.698783903946111, 12.
     699483747835513, 12.699288309356312,
     12.69960747824775, 12.700021337579798
      12.698899068950135, 12.
     698902130126953, 12.699335516234974,
     12.699632244345583, 12.699432679164557
     , 12.698517534467909, 12.
     697082136884148, 12.697378223325, 12.
     697038797684657, 12.696674058466781,
     12. 696958241639313, 12. 697015874179794
      12.696705771081241, 12.
     696449256237642, 12.696559752947019,
     12. 69696268623258, 12. 696925810825677
     , 12.696916491897017, 12.
     696321958377037, 12.696769867414309,
     12.69693762579082, 12.69741365055979,
```

```
7677 12. 6979177675 12946, 12. 697868 85343 952
       12.69776823491226, 12.
     697316369892638, 12.696336999351596,
     12. 69747555108718, 12. 697461581524507
      12.697731577319864, 12.
     69798571975143, 12.698259600886592, 12
     . 698444019129246, 12. 698034086345155,
     12.698244995541042, 12.697832507851682
       12.698792693055706, 12.
     698843273115747, 12.69904715337871, 12
     . 698480093920672, 12. 697850445170461,
     12. 69750541522179, 12. 696846903106312
       12.696871716299174, 12.
     697951399249796, 12.698799892708108,
     12.698644808781, 12.699224354308328,
     12. 699021092167607, 12. 699417938420803
     , 12.699421917950666, 12.
     698795442227963, 12.69850813900983, 12
     . 698593145535316, 12. 698641306088295,
     12. 698858926325668,12. 69818655061133
     , 12.697963596862039, 12.
     697387730633771, 12.697545451882444,
     12. 697986920674643,12. 699312686920166
     , 12.699387285444471, 12.
```

```
7677 69930609361625, 12.699886051225073, 12
     . 69947788450453, 12. 699865217562076,
     12.699215677049425, 12.699374864130844
      12.699641681011812, 12.
     699480486504825, 12.700064388322241,
     12. 70005973768823, 12. 699753943784737
     , 12.699706307163945, 12.
     700473738305362, 12.700717584586437,
     12.700567216049006, 12.70087163242293
     , 12.700858581213303, 12.
     701329084090245, 12.70065928094181, 12
     . 701638916392385, 12. 701234328893968,
     12.700678077744849, 12.700663236924159
     , 12.70080143728374, 12.
     700181342937329, 12.699669885046688,
     12.700207498338488, 12.700438364052479
     , 12.701548988436475, 12.
     701813009050158, 12.701842773107835,
     12. 701210498809814,12. 70184099527053
     , 12.701155020866866, 12.
     70156408239294, 12.7010627263858, 12.
     700672496984035, 12.701059347317543,
     12. 701250541357346, 12. 70083937232877
     , 12.70048514118901, 12.
```

```
7677 701100979322268, 12.70032258681309, 12
     . 699909657607844, 12. 699142326543361,
     12.699713424400047, 12.699880717713157
     , 12.700476045961734, 12.
     700462994752106, 12.699485772921715,
     12. 699341473756013,12. 698788401521282
     , 12.699252935103429, 12.
     699153788295792, 12.700134919013506,
     12. 699382193294571,12. 700366726628056
     , 12.700424111919638, 12.
     699868243417622, 12.70016520111649, 12
     . 700735221674412, 12. 700970979384435,
     12. 701835049523247, 12. 70118005776111
     , 12.700043119030234, 12.
     699881029717716, 12.700173884262274,
     12.699654808750859, 12.699891355302599
     , 12.700535827212864, 12.
     699308654408396, 12.698544184366861,
     12.698765124803709, 12.698290671831296
       12.696469589515969, 12.
     696618021270375, 12.697133458690878,
     12.697234406883334, 12.69734346130748
     , 12.697480472517602, 12.
     696640244236699, 12.695838027530247,
```

```
12.696058655962531, 12.697254228003231
7677
       12.697621404388805, 12.
     698342664742176, 12.698448098736044,
     12.698194068155171, 12.698990674666417
      12.69764<u>5</u>0166584<u>5</u>4, <u>1</u>2.
     697956026336293, 12.697322886667134,
     12. 698247144251694,12. 698337925804985
      12. 69823322178405, 12.
     698019716474745, 12.698538285714609,
     12.698903336937045, 12.698644302509448
     . 12.699547567485292. 12.
     698615857112555, 12.698707297996238,
     12.698229548371868, 12.69786886521327<u>7</u>
     , 12.698760839156163, 12.
     69906759262085, 12.699750358675733, 12
     . 700231628653444, 12. 701350371042887,
     12. 7013785103221, 12. 701411953678837,
     12. 702589211640534, 12. 703501518861747
     , 12.703782970522656, 12.
     703316806275168, 12.703323175877701,
     12. 702779098793313, 12. 703342096305187
     , 12.703364107343885, 12.
     702579362892811, 12.703504986233181,
     12.704496466083292, 12.704290442996555
```

```
7677 , 12.704134817476627, 12.
     70483954747518, 12.705030458944815, 12
     704756024443073, 12.704600822778396,
     12. 705316137384486, 12. 706268846252819
      12.70577832210211, 12.70493941836887
      12.704593829166742, 12.
     704791528207284, 12.704770800508099,
     12. 704115685121513, 12. 704353456143979
     , 12.703850546000917, 12.
     70345009697808, 12.702258245444591, 12
     . 703666881278709, 12. 704241063859728,
     12.703825885866895, 12.704004558516138
     , 12.703297544408727, 12.
     70284844033512, 12.703739419395541, 12
     . 703809555665947, 12. 704664783713259,
     12.704681555430094, 12.70584543251697
     , 12.704445426846728, 12.
     704050052313157, 12.704188611772326,
     12.704491997942512, 12.703599594257495
     , 12.7031065210884, 12.703888263231443
     12.704108909324363, 12.
     703707506627213, 12.703130098036779,
     12. 702725704805351, 12. 702396398709144
     . 12.702528776945892, 12.
```

```
7677 702557328306598, 12.701728879669567,
     12.700947019788954, 12.700659445774408
     , 12.701290519149214, 12.
     700830394839063, 12.699429094055553,
     12.699573040008545, 12.699512281535585
       12.698918177757735, 12.
     698680624549771, 12.698352860815731,
     12.697672072752022, 12.697910302951012
       12.698909117851729, 12.
     699915632789518, 12.700666810259406,
     12.70059744517<u>0</u>084, 12.7013791225<u>5</u>7464
     , 12.701739846924205, 12.
     701392909626902, 12.700059019489053,
     12. 69916945916635, 12. 699213487130624
     , 12.698417298587753, 12.
     698540952470568, 12.698546409606934,
     12.698648476306303, 12.698241333902619
       12.697700512262038, 12.
     698855052759617, 12.69850793885596, 12
     . 698747434733827,12. 69809349672294,
     12.697522969893468, 12.697328638147425
      12.697489979826374, 12.
     69756124637745, 12.696839544508192, 12
     . 696998354829388, 12. 696501119637196,
```

```
12.697325064812178, 12.696928442260365
7677
       12.69650754222163<u>5</u>, 1<u>2</u>.
     696908126642674, 12.696778067836055,
     12.696876337498795, 12.696950041217569
      12.696613464826418, 12.
     696602114924678, 12.696998731589611,
     12.696747809280584, 12.696338259143594
     , 12.695637090706532, 12.
     696207894219292, 12.696654773052828,
     12.697108574855475, 12.69616241219603
     12.694928345856843, 12.
     69430849287245, 12.693729530146092, 12
     . 693245599299301,   12. 69371133969154,
     12.692053818408354, 12.691827850577273
     , 12.692400708610629, 12.
     692090481887629, 12.692727966073118,
     12.692927631331079, 12.693554789931685
       12.69307984246148, 12.
     693331117983218,12.694492081065237,
     12.695063961876762, 12.696013332884988
     , 12.69574025825218, 12.
     696146929705584, 12.696396863019025,
     12.6966137709441, 12.697101575356943,
     12. 696343333632857,12. 69696119096544
```

```
, 12.695566724847865, 12.6950505103594
, 12.695316991688292, 12.
695000819218011, 12.694460692229095,
12.694588343302408, 12.695627530415853
  12.69616<u>738660835</u>9, <u>12.</u>
696506235334608, 12.696772963912398,
12.698459778302981, 12.697723070780436
 , 12.698575<u>21999</u>0294, 12.
698545879787869, 12.697428891688217,
12. 698267724778917,12. 69859398735894
 . 12.697482338658086, 12.
697253986641213, 12.696938738410855,
12. 696167469024658, 12. 695998574480598
 , 12.695948288764482, 12.
696278189435418, 12.696710033181272,
12.696414282292496, 12.695539315541586
  12.69514810891799, 12.
694211842101296, 12.694993407637984,
12.695854993514073, 12.69599598425406
  12.695950107809939, 12.
<u>695548775</u>7553<u>2</u>9, 12.695410946269094,
12.696051974355438, 12.696236263086766
 , 12.695809134730586, 12.
695214448151765, 12.694575368622203,
```

```
12.693491847426802, 12.692986676722397
7677
       12.693307941342578, 12.
     693505575627457, 12.693743799939568,
     12.693538459730737, 12.694190402089813
       12.69451038925736, 12.
     694720586140951, 12.694649272494846,
     12.696228657239748, 12.696171230740017
       12. 69613672774515, <u>12.</u>
     695824252234566, 12.696566887843757,
     12.697811921437582, 12.69837933410833
     12.697277074978675, 12.
     696719410978718, 12.69681606763675, 12
     . 696962203508543, 12. 69806656425382,
     12.698264104348642, 12.698722274215132
     , 12.699224377855842, 12.
     698586799480298, 12.69754683529<u>8</u>892,
     12.696960237291124, 12.69722874370622
       12.696778862564653, 12.
     69653300885801, 12.696410373405174, 12
     . 69718822432153, 12. 697267079058989,
     12.696796364254421, 12.696509761574827
      12.696672292403234, 12.
     697253374405848, 12.696799572603203,
     12. 697319054309233, 12. 696455737690867
```

```
7677 , 12.697961960309817, 12.
     698210816324494, 12.697248994568248,
     12. 697336461808947,12. 696600607883783
       12.695833953810327, 12.6966552734375
       12.696974059681834, 12.
     69691887019593, 12.696084081390758, 12
     . 696811811423595,12. 695766048666872,
     12.696146293922707, 12.696320739793189
       12.696142449791049, 12.
     695666460343348, 12.696417637813239,
     12.696735488043892, 12.695814468242505
      12. 69605<u>1097210542,    12.</u>
     696248025070002, 12.696129987269272,
     12.696396315539324, 12.695940500424232
     , 12.696007599065334, 12.
     695986630004128, 12.69686909663<u>8</u>244,
     12.696898107175473, 12.696972299505163
       12.696375258174943, 12.
     6966580873654<u>21, 12.6965021675015</u>67,
     12.696221887329479, 12.695598990828902
     , 12.696280149765956, 12.
     695975032853491, 12.695192183977293,
     12. 695424809867953,12. 695446444146427
     , 12.696093853609062, 12.
```

```
7677 695994995258472, 12.695687229250684,
     12. 695788336388858, 12. 694596649687966
     , 12.694543326342547, 12.
     69422322732431, 12.693407005733913, 12
     . 693090780281727, 12. 692894806096584,
     12. 692521101162757, 12. 692252965621007
     , 12.692305146911998, 12.
     692614331657504, 12.693453323693923,
     12.6936919129925, 12.694234824474947,
     12. 694121195946211,12. 694249959639562
     , 12.693428810731865, 12.
     694011152526478, 12.693835340900186,
     12.693962055959819, 12.694079246050046
     , 12.694671483687413, 12.
     695194844846371, 12.695451689355167,
     12.694659097695057, 12.695655075120337
     , 12.696610232930125, 12.
     696432066552433, 12.696163724969935,
     12. 696655238116229, 12. 695900157645896
       12.69576969264466, 12.
     696194107149854, 12.696133613586426,
     12. 695876568923762, 12. 69667273391912
     , 12.695273611280653, 12.
     69507787257065, 12.695335241011632, 12
```

```
7677 . 694947943275357, 12. 695335776717574,
     12.694674003271409, 12.694698757595486
      12.695256345066024, 12.
     695670063112988, 12.695957896150189,
     12.696493908211037, 12.69592541824152<sub>4</sub>
       12.696118254720428, 12.
     696490499708387, 12.697022526352495,
     12.697448082912116, 12.69717217080387
       12.697508076090871, 12.
     697472342738399, 12.697886614151942,
     12. 697864126276087,12. 697177981152947
      12.696705147072121, 12.
     696094459957546, 12.697057211840594,
     12.696488710097325, 12.696523054146473
     , 12.696849293178982, 12.
     69654338153792, 12.69690372325756, 12.
     697118323526265, 12.697749190860325,
     12.698040550137744, 12.697729098944016
      12.698085213884895, 12.
     697945318104308, 12.69797780778673, 12
     . 698136423840936,12. 697065918533891,
     12.697960647535913, 12.697650450247306
     12.697138126985527, 12.
     696944796008829, 12.697314421335856,
```

```
12.69770950741238, 12.697539194130604
7677
     , 12.696976596926465, 12.
     696948069113272, 12.697756537684688,
     12.697125841070104, 12.69751243238096
      12.697647712848804, 12.
     69753486138803, 12.698649783193328, 12
     . 699644600903547,12. 699387591562154,
     12.699706854643646, 12.700945224291013
     , 12.700931972927517, 12.
     701980761539788, 12.701523963315987,
     12. 701216014814966, 12. 70071865599832<sub>4</sub>
     , 12.699902057647705, 12.
     700318189314855, 12.699594191562982,
     12.699405152120708, 12.699390411376953
     , 12.699609532768344, 12.
     699466834833592, 12.699944296000917,
     12. 700113826327854, 12. 700551639368504
     , 12.70105387840742, 12.70218234592014
      12.701090459470395, 12.
     701110039228274, 12.702330188986696,
     12. 702804265198884, 12. 703127019199325
     , 12.703236456270572, 12.
     702430324789919, 12.701677334161452,
     12. 70111495477182, 12. 701787348146793
```

```
7677 , 12.702508261174332, 12.
     701045218809151, 12.700973410665252,
     12. 700477458812573, 12. 700179882991462
      12.700409918655584, 12.
     70066343707803, 12.700700771661452, 12
     . 700017169669822, 12. 70071006115572,
     12.701739929340503, 12.701365700474492
     , 12.700969030827652, 12.
     701377903973615, 12.701954394211004,
     12. 701415209122645, 12. 70118107030421
     , 12.701988443916227, 12.
     702886446022694, 12.70257220444856, 12
     . 702531031620355, 12. 702323024655566,
     12.701369079542749, 12.70169433546655
     , 12.701841583958378, 12.
     702681982958758, 12.701949019490936,
     12. 700845129695939, 12. 70131473776735
     , 12.70189991115052, 12.
     700651086406943, 12.700910356309679,
     12.701051358823422, 12.700085475121016
     , 12.699932092501793, 12.
     699368035351789, 12.698405112749265,
     12. 698769451659402, 12. 69853933946586
     , 12.698750378173074, 12.
```

7677 698850749451438, 12.698548116801698, 12.698802624219729, 12.69858952510504, 12.698247632862609, 12. 698515067865818, 12.698165940649716, 12.698653609664351]}

7678 history.epoch = [0, 1, 2, 3, 4, 5, 6], 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 , 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73 , 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92 , 93, 94, 95, 96, 97, 98, 99, 100, 101 , 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116 , 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131 , 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146 , 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161

7678 , 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176 , 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191 , 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206 , 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221 , 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236 , 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266 , 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281 , 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296 , 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311 , 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326 , 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341

7678 , 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371 , 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386 , 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401 , 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416 , 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431 , 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446 , 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461 , 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476 , 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491 , 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506 , 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521

7678 , 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566 , 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581 , 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596 , 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611 , 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626 , 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641 , 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656 , 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671 , 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686 , 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701

7678 , 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746 , 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761 , 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776 , 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791 , 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806 , 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821 , 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836 , 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851 , 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866 , 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881

7678 , 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926 , 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941 , 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956 , 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986 , 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, <u>1001, 1002, 1</u>003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048,

1050, 1051, 1052, 1053, 1049, 1054, 1060, 1055, 1056, 1057, 1058, 1059, 1062, 1063, 1064, 1065, 1061, 1066, 1067. 1068, 1069, 1070, 1071, 1072, 1075, 1076, 1077, 1073, 1074, 1078, 1081, 1082, 1083, 1079, 1080, 1084, 1087, 1088, 1089, 1085, 1086, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1102, 1099, 1100, 1101, 1097, 1098, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1134, 1135, 1136, 1137, 1133, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1158, 1159, 1160, 1161, 1157, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192,

1194, 1195, 1196, 1197, 1198, 1193, 1204, 1199, 1200, 1201, 1202, 1203, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1<u>231, 1232, 1233, 1234,</u> 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336,

1337,	1338,	1339,	1340,	1341,	1342,
1343,	1344,	1345,	1346,	1347,	1348,
1349,	1350,	1351,	1352,	1353,	1354,
1355,	1356,	1357,	1358,	1359,	1360,
1361,	1362,	1363,	1364,	1365,	1366,
1367,	1368,	1369,	1370,	1371,	1372,
1373,	1374,	1375,	1376,	1377,	1378,
1379,	1380,	1381,	1382,	1383,	1384,
1385,	1386,	1387,	1388,	1389,	1390,
1391,	1392,	1393,	1394,	1395,	1396,
1397,	1398,	1399,	1400,	1401,	1402,
1403,	1404,	1405,	1406,	1407,	1408,
1409,	1410,	1411,	1412,	1413,	1414,
1415,	1416,	1417,	1418,	1419,	1420,
1421,	1422,	1423,	1424,	1425,	1426,
1427,	1428,	1429,	1430,	1431,	1432,
1433,	1434,	1435,	1436,	1437,	1438,
1439,	1440,	1441,	1442,	1443,	1444,
1445,	1446,	1447,	1448,	1449,	1450,
1451,	1452,	1453,	1454,	1455,	1456,
1457,	1458,	1459,	1460,	1461,	1462,
1463,	1464,	1465,	1466,	1467,	1468,
1469,	1470,	1471,	1472,	1473,	1474,
1475,	1476,	1477,	1478,	1479,	1480,

1481,	1482,	1483,	1484,	1485,	1486,
1487,	1488,	1489,	1490,	1491,	1492,
1493,	1494,	1495,	1496,	1497,	1498,
1499,	1500,	1501,	1502,	1503,	1504,
1505,	1506,	1507,	1508,	1509,	1510,
1511,	1512,	1513,	1514,	1515,	1516,
1517,	1518,	1519,	1520,	1521,	1522,
1523,	1524,	1525,	1526,	1527,	1528,
1529,	1530,	1531,	1532,	1533,	1534,
1535,	1536,	1537,	1538,	1539,	1540,
1541,	1542,	1543,	1544,	1545,	1546,
1547,	1548,	1549,	1550,	1551,	1552,
1553,	1554,	1555,	1556,	1557,	1558,
1559,	1560,	1561,	1562,	1563,	1564,
1565,	1566,	1567,	1568,	1569,	1570,
1571,	1572,	1573,	1574,	1575,	1576,
1577,	1578,	1579,	1580,	1581,	1582,
1583,	1584,	1585,	1586,	1587,	1588,
1589,	1590,	1591,	1592,	1593,	1594,
1595,	1596,	1597,	1598,	1599,	1600,
1601,	1602,	1603,	1604,	1605,	1606,
1607,	1608,	1609,	1610,	1611,	1612,
1613,	1614,	1615,	1616,	1617,	1618,
1619,	1620,	1621,	1622,	1623,	1624,

1627, 1628, 1625, 1626, 1629, 1630, 1633, 1634, 1632, 1635, 1636, 1631, 1637, 1638, 1639, 1640, 1641, 1642, 1645, 1646, 1647, 1643, 1644, 1648, 1651, 1652, 1653, 1649, 1650, 1654, 1657, 1658, 1659, 1655, 1656, 1660, 1663, 1664, 1665, 1661, 1662, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1674, 1675, 1676, 1677, 1678, 1673, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1698, 1699, 1700, 1701, 1697, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1710, 1711, 1712, 1713, 1709, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1729, 1730, 1731, 1727, 1728, 1732, 1735, 1736, 1737, 1733, 1734, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1758, 1759, 1760, 1761, 1757, 1762, <u>1763, 1764, 1</u>765, 1766, 1767, 1768,

1769,	1770,	1771,	1772,	1773,	1774,
1775,	1776,	1777,	1778,	1779,	1780,
1781,	1782,	1783,	1784,	1785,	1786,
1787,	1788,	1789,	1790,	1791,	1792,
1793,	1794,	1795,	1796,	1797,	1798,
1799,	1800,	1801,	1802,	1803,	1804,
1805,	1806,	1807,	1808,	1809,	1810,
1811,	1812,	1813,	1814,	1815,	1816,
1817,	1818,	1819,	1820,	1821,	1822,
1823,	1824,	1825,	1826,	1827,	1828,
1829,	1830,	1831,	1832,	1833,	1834,
1835,	1836,	1837,	1838,	1839,	1840,
1841,	1842,	1843,	1844,	1845,	1846,
1847,	1848,	1849,	1850,	1851,	1852,
1853,	1854,	1855,	1856,	1857,	1858,
1859,	1860,	1861,	1862,	1863,	1864,
1865,	1866,	1867,	1868,	1869,	1870,
1871,	1872,	1873,	1874,	1875,	1876,
1877,	1878,	1879,	1880,	1881,	1882,
1883,	1884,	1885,	1886,	1887,	1888,
1889,	1890,	1891,	1892,	1893,	1894,
1895,	1896,	1897,	1898,	1899,	1900,
1901,	1902,	1903,	1904,	1905,	1906,
1907,	1908,	1909,	1910,	1911,	1912,

1913,	1914,	1915,	1916,	1917,	1918,
1919,	1920,	1921,	1922,	1923,	1924,
1925,	1926,	1927,	1928,	1929,	1930,
1931,	1932,	1933,	1934,	1935,	1936,
1937,	1938,	1939,	1940,	1941,	1942,
1943,	1944,	1945,	1946,	1947,	1948,
1949,	1950,	1951,	1952,	1953,	1954,
1955,	1956,	1957,	1958,	1959,	1960,
1961,	1962,	1963,	1964,	1965,	1966,
1967,	1968,	1969,	1970,	1971,	1972,
1973,	1974,	1975,	1976,	1977,	1978,
1979,	1980,	1981,	1982,	1983,	1984,
1985,	1986,	1987,	1988,	1989,	1990,
1991,	1992,	1993,	1994,	1995,	1996,
1997,	1998,	1999,	2000,	2001,	2002,
2003,	2004,	2005,	2006,	2007,	2008,
2009,	2010,	2011,	2012,	2013,	2014,
2015,	2016,	2017,	2018,	2019,	2020,
2021,	2022,	2023,	2024,	2025,	2026,
2027,	2028,	2029,	2030,	2031,	2032,
2033,	2034,	2035,	2036,	2037,	2038,
2039,	2040,	2041,	2042,	2043,	2044,
2045,	2046,	2047,	2048,	2049,	2050,
2051,	2052,	2053,	2054,	2055,	2056,

2057,	2058,	2059,	2060,	2061,	2062,
2063,	2064,	2065,	2066,	2067,	2068,
2069,	2070,	2071,	2072,	2073,	2074,
2075,	2076,	2077,	2078,	2079,	2080,
2081,	2082,	2083,	2084,	2085,	2086,
2087,	2088,	2089,	2090,	2091,	2092,
2093,	2094,	2095,	2096,	2097,	2098,
2099,	2100,	2101,	2102,	2103,	2104,
2105,	2106,	2107,	2108,	2109,	2110,
2111,	2112,	2113,	2114,	2115,	2116,
2117,	2118,	2119,	2120,	2121,	2122,
2123,	2124,	2125,	2126,	2127,	2128,
2129,	2130,	2131,	2132,	2133,	2134,
2135,	2136,	2137,	2138,	2139,	2140,
2141,	2142,	2143,	2144,	2145,	2146,
2147,	2148,	2149,	2150,	2151,	2152,
2153,	2154,	2155,	2156,	2157,	2158,
2159,	2160,	2161,	2162,	2163,	2164,
2165,	2166,	2167,	2168,	2169,	2170,
2171,	2172,	2173,	2174,	2175,	2176,
2177,	2178,	2179,	2180,	2181,	2182,
2183,	2184,	2185,	2186,	2187,	2188,
2189,	2190,	2191,	2192,	2193,	2194,
2195,	2196,	2197,	2198,	2199,	2200,

2201,	2202,	2203,	2204,	2205,	2206,
2207,	2208,	2209,	2210,	2211,	2212,
2213,	2214,	2215,	2216,	2217,	2218,
2219,	2220,	2221,	2222,	2223,	2224,
2225,	2226,	2227,	2228,	2229,	2230,
2231,	2232,	2233,	2234,	2235,	2236,
2237,	2238,	2239,	2240,	2241,	2242,
2243,	2244,	2245,	2246,	2247,	2248,
2249,	2250,	2251,	2252,	2253,	2254,
2255,	2256,	2257,	2258,	2259,	2260,
2261,	2262,	2263,	2264,	2265,	2266,
2267,	2268,	2269,	2270,	2271,	2272,
2273,	2274,	2275,	2276,	2277,	2278,
2279,	2280,	2281,	2282,	2283,	2284,
2285,	2286,	2287,	2288,	2289,	2290,
2291,	2292,	2293,	2294,	2295,	2296,
2297,	2298,	2299,	2300,	2301,	2302,
2303,	2304,	2305,	2306,	2307,	2308,
2309,	2310,	2311,	2312,	2313,	2314,
2315,	2316,	2317,	2318,	2319,	2320,
2321,	2322,	2323,	2324,	2325,	2326,
2327,	2328,	2329,	2330,	2331,	2332,
2333,	2334,	2335,	2336,	2337,	2338,
2339,	2340,	2341,	2342,	2343,	2344,

2345,	2346,	2347,	2348,	2349,	2350,
2351,	2352,	2353,	2354,	2355,	2356,
2357,	2358,	2359,	2360,	2361,	2362,
2363,	2364,	2365,	2366,	2367,	2368,
2369,	2370,	2371,	2372,	2373,	2374,
2375,	2376,	2377,	2378,	2379,	2380,
2381,	2382,	2383,	2384,	2385,	2386,
2387,	2388,	2389,	2390,	2391,	2392,
2393,	2394,	2395,	2396,	2397,	2398,
2399,	2400,	2401,	2402,	2403,	2404,
2405,	2406,	2407,	2408,	2409,	2410,
2411,	2412,	2413,	2414,	2415,	2416,
2417,	2418,	2419,	2420,	2421,	2422,
2423,	2424,	2425,	2426,	2427,	2428,
2429,	2430,	2431,	2432,	2433,	2434,
2435,	2436,	2437,	2438,	2439,	2440,
2441,	2442,	2443,	2444,	2445,	2446,
2447,	2448,	2449,	2450,	2451,	2452,
2453,	2454,	2455,	2456,	2457,	2458,
2459,	2460,	2461,	2462,	2463,	2464,
2465,	2466,	2467,	2468,	2469,	2470,
2471,	2472,	2473,	2474,	2475,	2476,
2477,	2478,	2479,	2480,	2481,	2482,
2483,	2484,	2485,	2486,	2487,	2488,

2489,	2490,	2491,	2492,	2493,	2494,
2495,	2496,	2497,	2498,	2499,	2500,
2501,	2502,	2503,	2504,	2505,	2506,
2507,	2508,	2509,	2510,	2511,	2512,
2513,	2514,	2515,	2516,	2517,	2518,
2519,	2520,	2521,	2522,	2523,	2524,
2525,	2526,	2527,	2528,	2529,	2530,
2531,	2532,	2533,	2534,	2535,	2536,
2537,	2538,	2539,	2540,	2541,	2542,
2543,	2544,	2545,	2546,	2547,	2548,
2549,	2550,	2551,	2552,	2553,	2554,
2555,	2556,	2557,	2558,	2559,	2560,
2561,	2562,	2563,	2564,	2565,	2566,
2567,	2568,	2569,	2570,	2571,	2572,
2573,	2574,	2575,	2576,	2577,	2578,
2579,	2580,	2581,	2582,	2583,	2584,
2585,	2586,	2587,	2588,	2589,	2590,
2591,	2592,	2593,	2594,	2595,	2596,
2597,	2598,	2599,	2600,	2601,	2602,
2603,	2604,	2605,	2606,	2607,	2608,
2609,	2610,	2611,	2612,	2613,	2614,
2615,	2616,	2617,	2618,	2619,	2620,
2621,	2622,	2623,	2624,	2625,	2626,
2627,	2628,	2629,	2630,	2631,	2632,

2633,	2634,	2635,	2636,	2637,	2638,
2639,	2640,	2641,	2642,	2643,	2644,
2645,	2646,	2647,	2648,	2649,	2650,
2651,	2652,	2653,	2654,	2655,	2656,
2657,	2658,	2659,	2660,	2661,	2662,
2663,	2664,	2665,	2666,	2667,	2668,
2669,	2670,	2671,	2672,	2673,	2674,
2675,	2676,	2677,	2678,	2679,	2680,
2681,	2682,	2683,	2684,	2685,	2686,
2687,	2688,	2689,	2690,	2691,	2692,
2693,	2694,	2695,	2696,	2697,	2698,
2699,	2700,	2701,	2702,	2703,	2704,
2705,	2706,	2707,	2708,	2709,	2710,
2711,	2712,	2713,	2714,	2715,	2716,
2717,	2718,	2719,	2720,	2721,	2722,
2723,	2724,	2725,	2726,	2727,	2728,
2729,	2730,	2731,	2732,	2733,	2734,
2735,	2736,	2737,	2738,	2739,	2740,
2741,	2742,	2743,	2744,	2745,	2746,
2747,	2748,	2749,	2750,	2751,	2752,
2753,	2754,	2755,	2756,	2757,	2758,
2759,	2760,	2761,	2762,	2763,	2764,
2765,	2766,	2767,	2768,	2769,	2770,
2771,	2772,	2773,	2774,	2775,	2776,

2777,	2778,	2779,	2780,	2781,	2782,
2783,	2784,	2785,	2786,	2787,	2788,
2789,	2790,	2791,	2792,	2793,	2794,
2795,	2796,	2797,	2798,	2799,	2800,
2801,	2802,	2803,	2804,	2805,	2806,
2807,	2808,	2809,	2810,	2811,	2812,
2813,	2814,	2815,	2816,	2817,	2818,
2819,	2820,	2821,	2822,	2823,	2824,
2825,	2826,	2827,	2828,	2829,	2830,
2831,	2832,	2833,	2834,	2835,	2836,
2837,	2838,	2839,	2840,	2841,	2842,
2843,	2844,	2845,	2846,	2847,	2848,
2849,	2850,	2851,	2852,	2853,	2854,
2855,	2856,	2857,	2858,	2859,	2860,
2861,	2862,	2863,	2864,	2865,	2866,
2867,	2868,	2869,	2870,	2871,	2872,
2873,	2874,	2875,	2876,	2877,	2878,
2879,	2880,	2881,	2882,	2883,	2884,
2885,	2886,	2887,	2888,	2889,	2890,
2891,	2892,	2893,	2894,	2895,	2896,
2897,	2898,	2899,	2900,	2901,	2902,
2903,	2904,	2905,	2906,	2907,	2908,
2909,	2910,	2911,	2912,	2913,	2914,
2915,	2916,	2917,	2918,	2919,	2920,

0001	0000	2222	2224	2225	0001
2921,	2922,	2923,	2924,	2925,	2926,
2927,	2928,	2929,	2930,	2931,	2932,
2933,	2934,	2935,	2936,	2937,	2938,
2939,	2940,	2941,	2942,	2943,	2944,
2945,	2946,	2947,	2948,	2949,	2950,
2951,	2952,	2953,	2954,	2955,	2956,
2957,	2958,	2959,	2960,	2961,	2962,
2963,	2964,	2965,	2966,	2967,	2968,
2969,	2970,	2971,	2972,	2973,	2974,
2975,	2976,	2977,	2978,	2979,	2980,
2981,	2982,	2983,	2984,	2985,	2986,
2987,	2988,	2989,	2990,	2991,	2992,
2993,	2994,	2995,	2996,	2997,	2998,
2999,	3000,	3001,	3002,	3003,	3004,
3005,	3006,	3007,	3008,	3009,	3010,
3011,	3012,	3013,	3014,	3015,	3016,
3017,	3018,	3019,	3020,	3021,	3022,
3023,	3024,	3025,	3026,	3027,	3028,
3029,	3030,	3031,	3032,	3033,	3034,
3035,	3036,	3037,	3038,	3039,	3040,
3041,	3042,	3043,	3044,	3045,	3046,
3047,	3048,	3049,	3050,	3051,	3052,
3053,	3054,	3055,	3056,	3057,	3058,
3059,	3060,	3061,	3062,	3063,	3064,

3065,	3066,	3067,	3068,	3069,	3070,
3071,	3072,	3073,	3074,	3075,	3076,
3077,	3078,	3079,	3080,	3081,	3082,
3083,	3084,	3085,	3086,	3087,	3088,
3089,	3090,	3091,	3092,	3093,	3094,
3095,	3096,	3097,	3098,	3099,	3100,
3101,	3102,	3103,	3104,	3105,	3106,
3107,	3108,	3109,	3110,	3111,	3112,
3113,	3114,	3115,	3116,	3117,	3118,
3119,	3120,	3121,	3122,	3123,	3124,
3125,	3126,	3127,	3128,	3129,	3130,
3131,	3132,	3133,	3134,	3135,	3136,
3137,	3138,	3139,	3140,	3141,	3142,
3143,	3144,	3145,	3146,	3147,	3148,
3149,	3150,	3151,	3152,	3153,	3154,
3155,	3156,	3157,	3158,	3159,	3160,
3161,	3162,	3163,	3164,	3165,	3166,
3167,	3168,	3169,	3170,	3171,	3172,
3173,	3174,	3175,	3176,	3177,	3178,
3179,	3180,	3181,	3182,	3183,	3184,
3185,	3186,	3187,	3188,	3189,	3190,
3191,	3192,	3193,	3194,	3195,	3196,
3197,	3198,	3199,	3200,	3201,	3202,
3203,	3204,	3205,	3206,	3207,	3208,

/ <u> </u>					
3209,	3210,	3211,	3212,	3213,	3214,
3215,	3216,	3217,	3218,	3219,	3220,
3221,	3222,	3223,	3224,	3225,	3226,
3227,	3228,	3229,	3230,	3231,	3232,
3233,	3234,	3235,	3236,	3237,	3238,
3239,	3240,	3241,	3242,	3243,	3244,
3245,	3246,	3247,	3248,	3249,	3250,
3251,	3252,	3253,	3254,	3255,	3256,
3257,	3258,	3259,	3260,	3261,	3262,
3263,	3264,	3265,	3266,	3267,	3268,
3269,	3270,	3271,	3272,	3273,	3274,
3275,	3276,	3277,	3278,	3279,	3280,
3281,	3282,	3283,	3284,	3285,	3286,
3287,	3288,	3289,	3290,	3291,	3292,
3293,	3294,	3295,	3296,	3297,	3298,
3299,	3300,	3301,	3302,	3303,	3304,
3305,	3306,	3307,	3308,	3309,	3310,
3311,	3312,	3313,	3314,	3315,	3316,
3317,	3318,	3319,	3320,	3321,	3322,
3323,	3324,	3325,	3326,	3327,	3328,
3329,	3330,	3331,	3332,	3333,	3334,
3335,	3336,	3337,	3338,	3339,	3340,
3341,	3342,	3343,	3344,	3345,	3346,
3347,	3348,	3349,	3350,	3351,	3352,

```
3355, 3356,
7678
    3353,
           3354,
                              3357,
                                    3358,
     3359,
           3360, 3361, 3362, 3363,
                                    3364,
     3365, 3366, 3367, 3368, 3369, 3370,
     3371, 3372, 3373, 3374, 3375, 3376,
     3377, 3378, 3379, 3380, 3381, 3382,
     3383, 3384, 3385, 3386, 3387, 3388,
     3389, 3390, 3391, 3392, 3393,
                                    3394,
     3395,
           3396, 3397, 3398, 3399,
                                    3400,
     3401, 3402, 3403, 3404, 3405, 3406,
     3407, 3408, 3409, 3410, 3411, 3412,
     3413, 3414, 3415, 3416, 3417, 3418,
     <u>3419, 3420, 3421, 3422, 3423, 3424, </u>
     3425, 3426, 3427, 3428, 3429, 3430,
     3431, 3432, 3433, 3434, 3435, 3436,
     3437, 3438, 3439, 3440, 3441, 3442,
     3443, 3444, 3445, 3446, 3447, 3448,
     3449, 3450, 3451, 3452, 3453, 3454,
     3455, 3456, 3457, 3458, 3459, 3460,
     3461, 3462, 3463, <u>3464</u>]
    load the trained model
7679
7680 ###########model_evaluate
     #################
     results test_loss: 12.224833161223168
7682 results test_mean_absolute_error:
```