Running the programs again 2017-5-15  
A more streamlined output since I didn’t use many thing last times and it will get updated anyway.

Logged are the runtimes until a solution is found.

Order:

Depthfirst 0  
Depthfirst 1

Breadthfirst0  
Breadthfirst1  
flipsort

Length 5:

test: 1

genome to convert: [1, 2, 5, 3, 4]

0.001

final mutation tracker: [0, 0, 1, 6, 8]

0.002

final mutation tracker: [0, 1, 4, 6, 8]

0.001

mutation tracker: [2, 3]

0.000

mutation tracker: [2, 3]

0.000

test: 2

genome to convert: [4, 1, 3, 2, 5]

0.000

final mutation tracker: [0, 0, 0, 5]

0.001

final mutation tracker: [0, 1, 2, 1]

0.000

mutation tracker: [0, 5]

0.000

mutation tracker: [0, 5]

0.000

test: 3

genome to convert: [3, 1, 2, 5, 4]

0.000

final mutation tracker: [0, 0, 0, 1, 3]

0.000

final mutation tracker: [0, 1, 0, 3, 0]

0.001

mutation tracker: [0, 1, 3]

0.000

mutation tracker: [1, 4, 3]

0.000

test: 4

genome to convert: [4, 2, 3, 1, 5]

0.001

final mutation tracker: [0, 0, 0, 5, 0]

0.000

final mutation tracker: [0, 1, 0, 2, 4]

0.000

mutation tracker: [1, 7]

0.001

mutation tracker: [1, 7]

0.000

test: 5

genome to convert: [5, 3, 1, 4, 2]

0.001

final mutation tracker: [0, 0, 4, 6, 1]

0.001

final mutation tracker: [0, 1, 0, 6, 1]

0.002

mutation tracker: [4, 6, 1]

0.000

mutation tracker: [2, 1, 3, 9]

0.000

test: 6

genome to convert: [1, 2, 5, 3, 4]

0.001

final mutation tracker: [0, 0, 1, 6, 8]

0.002

final mutation tracker: [0, 1, 4, 6, 8]

0.000

mutation tracker: [2, 3]

0.001

mutation tracker: [2, 3]

0.000

test: 7

genome to convert: [2, 4, 5, 3, 1]

0.001

final mutation tracker: [0, 0, 1, 8, 0]

0.000

final mutation tracker: [0, 1, 0, 2, 9]

0.002

mutation tracker: [1, 8, 0]

0.001

mutation tracker: [8, 0, 3]

0.000

test: 8

genome to convert: [1, 2, 3, 4, 5]

0.000

final mutation tracker: [0, 0]

0.000

final mutation tracker: [0, 0]

0.000

mutation tracker: [0, 0]

0.001

mutation tracker: [9, 9]

0.000

test: 9

genome to convert: [5, 3, 4, 2, 1]

0.001

final mutation tracker: [0, 0, 1, 9]

0.001

final mutation tracker: [0, 1, 3, 7, 8]

0.000

mutation tracker: [1, 9]

0.001

mutation tracker: [1, 9]

0.000

test: 10

genome to convert: [2, 5, 4, 1, 3]

0.002

final mutation tracker: [0, 0, 3, 8, 0]

0.000

final mutation tracker: [0, 1, 0, 7, 6]

0.002

mutation tracker: [3, 8, 0]

0.000

mutation tracker: [7, 5, 6]

0.000

length 6:   
0.016

0.016

0.016

0.000

0.000

0.016

0.016

0.016

0.000

0.000

0.000

0.016

0.000

0.000

0.000

0.000

0.031

0.016

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.016

0.000

0.016

0.000

0.000

0.016

0.047

0.031

0.000

0.000

0.000

0.000

0.016

0.000

0.000

0.016

0.016

0.016

0.000

0.000

0.000

0.000

0.016

0.000

0.000

Length 7:

0.125

0.219

0.203

0.000

0.000

0.016

0.047

0.031

0.000

0.000

0.063

0.094

0.078

0.000

0.000

0.078

0.141

0.094

0.000

0.000

0.000

0.016

0.016

0.000

0.000

0.109

0.234

0.109

0.000

0.000

0.016

0.016

0.047

0.000

0.000

0.016

0.000

0.031

0.000

0.000

0.000

0.000

0.000

0.000

0.000

0.016

0.000

0.016

0.000

0.000

Length 8:

0.109

0.266

0.250

0.000

0.000

0.031

0.047

0.047

0.000

0.000

88.849

97.409

3.735

0.016

0.000

0.594

1.297

0.516

0.000

0.000

1.563

3.000

1.094

0.000

0.000

0.063

0.188

0.172

0.000

0.000

0.031

0.047

0.047

0.000

0.000

0.172

0.359

0.234

0.000

0.000

0.000

0.016

0.094

0.000

0.000

0.188

0.438

0.281

0.000

0.000

Length 9:

42.848

93.857

11.586

0.000

0.000

8.815

19.080

5.594

0.000

0.000

1.547

3.469

3.250

0.000

0.000

test: 1

genome to convert: [5, 6, 2, 4, 9, 7, 3, 8, 1]

AGAIN: going to depth: 7

453.218

final mutation tracker: [3, 5, 15, 17, 31, 35]

659.114

final mutation tracker: [3, 5, 15, 17, 31, 35]

33.016

mutation tracker: [3, 5, 15, 17, 31, 35]

0.004

mutation tracker: [12, 8, 16, 6, 33, 35]

0.000

test: 2

genome to convert: [7, 9, 6, 5, 8, 2, 1, 4, 3]

1.922

final mutation tracker: [0, 15, 3, 30, 32]

3.845

final mutation tracker: [0, 15, 3, 30, 32]

3.607

mutation tracker: [0, 15, 3, 30, 32]

0.002

mutation tracker: [15, 30, 32, 6, 7]

0.000

test: 3

genome to convert: [9, 1, 4, 2, 6, 7, 3, 5, 8]

AGAIN: going to depth: 7

37.451

final mutation tracker: [0, 9, 14, 12, 29, 2]

70.551

final mutation tracker: [0, 9, 14, 12, 29, 2]

21.566

mutation tracker: [0, 9, 14, 12, 29, 2]

0.005

mutation tracker: [12, 33, 21, 17, 14, 33, 35]

0.000

test: 4

genome to convert: [3, 2, 1, 9, 8, 5, 6, 7, 4]

0.025

final mutation tracker: [0, 0, 8, 13, 29]

0.003

final mutation tracker: [0, 1, 0, 13, 29]

0.085

mutation tracker: [8, 13, 29]

0.001

mutation tracker: [13, 8, 29]

0.000

test: 5

genome to convert: [2, 3, 7, 9, 4, 6, 1, 8, 5]

AGAIN: going to depth: 7

1082.436

final mutation tracker: [7, 10, 24, 7, 15, 21]

1329.077

final mutation tracker: [7, 10, 24, 7, 15, 21]

39.025

mutation tracker: [7, 10, 24, 7, 15, 21]

0.003

mutation tracker: [10, 18, 6, 19, 29, 33, 35]

0.000

test: 6

genome to convert: [9, 8, 1, 2, 4, 6, 5, 7, 3]

8.454

final mutation tracker: [2, 5, 28, 14, 35]

18.477

final mutation tracker: [2, 5, 28, 14, 35]

5.584

mutation tracker: [2, 5, 28, 14, 35]

0.002

mutation tracker: [5, 25, 20, 32, 35]

0.000

test: 7

genome to convert: [5, 4, 2, 9, 1, 7, 6, 8, 3]

8.452

final mutation tracker: [2, 5, 21, 24, 32]

18.384

final mutation tracker: [2, 5, 21, 24, 32]

5.568

mutation tracker: [2, 5, 21, 24, 32]

0.002

mutation tracker: [3, 12, 15, 32, 29, 7]

0.000

test: 8

genome to convert: [6, 9, 4, 5, 1, 8, 7, 2, 3]

16.158

final mutation tracker: [4, 5, 9, 29, 26]

35.550

final mutation tracker: [4, 5, 9, 29, 26]

1.780

mutation tracker: [16, 0, 25, 22]

0.002

mutation tracker: [16, 27, 35, 8, 3, 20]

0.000

test: 9

genome to convert: [4, 1, 8, 6, 5, 2, 9, 7, 3]

1.584

final mutation tracker: [0, 14, 23, 6, 9]

3.569

final mutation tracker: [0, 14, 23, 6, 9]

3.522

mutation tracker: [0, 14, 23, 6, 9]

0.003

mutation tracker: [17, 8, 13, 6, 28, 0, 32]

0.000

test: 10

genome to convert: [3, 9, 7, 1, 4, 6, 5, 2, 8]

21.204

final mutation tracker: [5, 15, 32, 9, 28]

44.810

final mutation tracker: [5, 15, 32, 9, 28]

9.015

mutation tracker: [5, 15, 32, 9, 28]

0.002

mutation tracker: [31, 17, 4, 8, 7]

0.000

Length 10 (now only breadthfirst0, breadthfirst1 & flipsorter).

test: 1

genome to convert: [1, 8, 3, 7, 6, 10, 9, 5, 2, 4]

110.378

mutation tracker: [1, 5, 11, 40, 38, 11]

0.004

mutation tracker: [40, 7, 37, 38, 14, 8, 23]

0.000

test: 2

genome to convert: [1, 6, 4, 5, 7, 3, 9, 8, 2, 10]

3.366

mutation tracker: [11, 1, 15, 31]

0.002

mutation tracker: [15, 11, 31, 5]

0.000

test: 3

genome to convert: [4, 6, 2, 10, 3, 9, 7, 8, 5, 1]

145.862

mutation tracker: [2, 18, 4, 14, 38, 17]

0.004

mutation tracker: [3, 37, 1, 3, 35, 44]

0.000

test: 4

genome to convert: [3, 8, 10, 1, 9, 4, 2, 5, 7, 6]

365.406

mutation tracker: [0, 6, 16, 17, 11, 28, 43]

0.006

mutation tracker: [10, 25, 31, 21, 12, 9, 29]

0.000

test: 5

genome to convert: [4, 7, 1, 6, 9, 8, 10, 2, 3, 5]

149.220

mutation tracker: [2, 23, 20, 10, 35, 40]

0.004

mutation tracker: [42, 26, 34, 12, 9, 7, 8]

0.000

test: 6

genome to convert: [10, 7, 4, 9, 6, 3, 8, 1, 2, 5]

91.682

mutation tracker: [0, 12, 18, 34, 11, 35]

0.003

mutation tracker: [12, 28, 36, 16, 38, 44]

0.000

test: 7

genome to convert: [9, 4, 1, 6, 5, 8, 3, 7, 2, 10]

78.432

mutation tracker: [0, 6, 18, 20, 35, 40]

0.003

mutation tracker: [6, 42, 31, 21, 19, 0]

0.000

test: 8

genome to convert: [3, 2, 1, 8, 9, 5, 4, 7, 10, 6]

2.640

mutation tracker: [8, 9, 20, 22]

0.004

mutation tracker: [22, 16, 12, 9, 38]

0.001

test: 9

genome to convert: [9, 8, 6, 5, 4, 10, 2, 7, 1, 3]

50.666

mutation tracker: [15, 26, 32, 23, 42]

0.004

mutation tracker: [24, 42, 1, 41, 23, 16]

0.000

test: 10

genome to convert: [9, 10, 7, 5, 6, 8, 3, 1, 2, 4]

88.400

mutation tracker: [0, 12, 2, 16, 6, 44]

0.003

mutation tracker: [24, 0, 42, 0, 38, 16]

0.000