

Integer Programs Report

Sequence-based Model

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N=10 objective: 1370.0 Runtime: 0.25397300720214844
N=12 objective: 1975.0 Runtime: 0.5069260597229004
N=14 objective: 2628.0 Runtime: 1.0679481029510498
N=16 objective: 3404.0 Runtime: 9.948219060897827
N=18 objective: 4303.0 Runtime: 102.81888508796692
N=20 objective: 5145.0 Runtime: 584.4066407680511
N=22 objective: 6115.0 Runtime: 3600.0428659915924 Gap: 0.019787408013082583

Position-based Model

N=10 objective: 1370.0 Runtime: 0.16763782501220703
N=12 objective: 1975.0 Runtime: 0.28492093086242676
N=14 objective: 2628.0 Runtime: 0.5017051696777344
N=16 objective: 3404.0 Runtime: 0.796302080154419
N=18 objective: 4303.0 Runtime: 1.373115062713623
N=20 objective: 5145.0 Runtime: 2.3405439853668213
N=22 objective: 6115.0 Runtime: 6.568305015563965
N=24 objective: 7310.0 Runtime: 13.752517938613892
N=26 objective: 8463.0 Runtime: 28.677090883255005
N=28 objective: 9574.0 Runtime: 111.07960987091064
N=30 objective: 10822.0 Runtime: 172.92234706878662 Gap: 9.240436148586214e-05
N=32 objective: 12114.0 Runtime: 348.5879511833191 Gap: 8.254911672445105e-05
N=34 objective: 13511.0 Runtime: 429.1218020915985 Gap: 7.401376656058027e-05
N=36

objective: 15043.0 Runtime: 483.8822422027588 Gap: 6.647610184138802e-05
N=38 objective: 16486.0 Runtime: 3600.0399849414825 Gap: 0.00885599902947956

Time-indexed Model

N=10 objective: 1158.0 Runtime: 0.5324318408966064
N=12 objective: 1670.0 Runtime: 0.7610559463500977
N=14 objective: 2223.0 Runtime: 2.089698076248169
N=16 objective: 2850.0 Runtime: 1.6180551052093506
N=18 objective: 3595.0 Runtime: 1.1525731086730957
N=20 objective: 4386.0 Runtime: 1.133065938949585
N=22 objective: 5226.0 Runtime: 1.577793836593628
N=24 objective: 6144.0 Runtime: 1.7533130645751953
N=26 objective: 7135.0 Runtime: 1.423557996749878
N=28 objective: 8123.0 Runtime: 1.297227144241333
N=30 objective: 9158.0 Runtime: 1.5081369876861572
N=32 objective: 10226.0 Runtime: 1.2346978187561035
N=34 objective: 11388.0 Runtime: 1.7688798904418945
N=36 objective: 12621.0 Runtime: 1.857923984527588

N=38 objective: 13863.0 Runtime: 2.2004470825195312
N=40 objective: 15196.0 Runtime: 1.6663930416107178
N=42 objective: 16604.0 Runtime: 1.4927730560302734
N=44 objective: 18020.0 Runtime: 2.32007098197937
N=46 objective: 19528.0 Runtime: 1.752676010131836
N=48 objective: 21191.0 Runtime: 1.9836091995239258
N=50 objective: 23002.0 Runtime: 1.8509521484375