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1 C:\Users\AlanKing\Miniconda3\envs\MOSDEX-test\
  python.exe C:/Users/AlanKing/Documents/GitHub/
  MOSDEX-python/src/read-mosdex.py
2 YES: Mosdex problem sailco_1-3.json is a valid
  instance of Mosdex schema MOSDEXSchemaV1-3-ajk.json
3
4 MODULE      ['sailco']
5 ALGORITHM    ['sailcoSolve']
6
7 sailco
8 OBJECTIVE    ['totalCost']
9 DATA        ['periods', 'demands', 'parameters', '
  production']
10 TERM        ['ctCapacity_regular', 'ctBoat_regular
  ', 'ctBoat_extra', 'ctBoat_inventory', '
  ctBoat_lagged_inventory']
11 VARIABLE    ['regular', 'extra', 'inventory']
12 CONSTRAINT   ['ctCapacity', 'ctBoat', 'ctBoat_1']
13
14 **** Executing sailcoSolve ****
15
16 ***List the Tables***
17
18 **modules_table**
19 module_name|item_name                |class_name|
  type_name |table_name
20 -----|-----|-----|----
  -----|-----
21 sailco    |periods                |DATA      |
  INPUT     |sailco_periods
22 sailco    |demands                |DATA      |
  INPUT     |sailco_demands
23 sailco    |parameters              |DATA      |
  INPUT     |sailco_parameters
24 sailco    |regular                |VARIABLE  |
  CONTINUOUS|sailco_regular
25 sailco    |extra                  |VARIABLE  |
  CONTINUOUS|sailco_extra

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26 sailco      |inventory                |VARIABLE  |
    CONTINUOUS|sailco_inventory
27 sailco      |ctCapacity                |CONSTRAINT|
    LINEAR    |sailco_ctCapacity
28 sailco      |ctBoat                    |CONSTRAINT|
    LINEAR    |sailco_ctBoat
29 sailco      |ctBoat_1                  |CONSTRAINT|
    LINEAR    |sailco_ctBoat_1
30 sailco      |totalCost                 |OBJECTIVE  |
    LINEAR    |sailco_totalCost
31 sailco      |ctCapacity_regular        |TERM       |
    LINEAR    |sailco_ctCapacity_regular
32 sailco      |ctBoat_regular            |TERM       |
    LINEAR    |sailco_ctBoat_regular
33 sailco      |ctBoat_extra              |TERM       |
    LINEAR    |sailco_ctBoat_extra
34 sailco      |ctBoat_inventory          |TERM       |
    LINEAR    |sailco_ctBoat_inventory
35 sailco      |ctBoat_lagged_inventory   |TERM       |
    LINEAR    |sailco_ctBoat_lagged_inventory
36
37 **sailco_ctBoat**
38 Period|Row      |Sense|RHS
39 -----|-----|-----|----
40 2      |ctBoat_2|==    |60.0
41 3      |ctBoat_3|==    |72.0
42 4      |ctBoat_4|==    |25.0
43
44 **sailco_ctBoat_1**
45 period|Row      |Sense|RHS
46 -----|-----|-----|----
47 1      |ctBoat_1|==    |30.0
48 1      |ctBoat_1|==    |50.0
49 1      |ctBoat_1|==    |62.0
50 1      |ctBoat_1|==    |15.0
51
52 **sailco_ctBoat_extra**
53 Row      |Column |Coefficient

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54 -----|-----|-----
55 ctBoat_1|extra_1|1.0
56 ctBoat_2|extra_2|1.0
57 ctBoat_3|extra_3|1.0
58 ctBoat_4|extra_4|1.0
59
60 **sailco_ctBoat_inventory**
61 Row      |Column      |Coefficient
62 -----|-----|-----
63 ctBoat_1|inventory_1|-1.0
64 ctBoat_2|inventory_2|-1.0
65 ctBoat_3|inventory_3|-1.0
66 ctBoat_4|inventory_4|-1.0
67
68 **sailco_ctBoat_lagged_inventory**
69 Row      |Column      |Coefficient
70 -----|-----|-----
71 ctBoat_2|inventory_1|1.0
72 ctBoat_3|inventory_2|1.0
73 ctBoat_4|inventory_3|1.0
74
75 **sailco_ctBoat_regular**
76 Row      |Column      |Coefficient
77 -----|-----|-----
78 ctBoat_1|regular_1|1.0
79 ctBoat_2|regular_2|1.0
80 ctBoat_3|regular_3|1.0
81 ctBoat_4|regular_4|1.0
82
83 **sailco_ctCapacity**
84 period|Row      |Sense|RHS
85 -----|-----|-----|-----
86 1      |ctCapacity_1|<=   |40.0
87 2      |ctCapacity_2|<=   |40.0
88 3      |ctCapacity_3|<=   |40.0
89 4      |ctCapacity_4|<=   |40.0
90
91 **sailco_ctCapacity_regular**

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92 Row          |Column      |Coefficient
93 -----|-----|-----
94 ctCapacity_1|regular_1|1.0
95 ctCapacity_2|regular_2|1.0
96 ctCapacity_3|regular_3|1.0
97 ctCapacity_4|regular_4|1.0
98
99 **sailco_demands**
100 period|demand
101 -----|-----
102 1      |40.0
103 2      |60.0
104 3      |72.0
105 4      |25.0
106
107 **sailco_extra**
108 period|Column |LowerBound|UpperBound|Objective|
    Value
109 -----|-----|-----|-----|-----|---
    --
110 1      |extra_1|0.0      |infinity  |450.0    |0.0
111 2      |extra_2|0.0      |infinity  |450.0    |0.0
112 3      |extra_3|0.0      |infinity  |450.0    |0.0
113 4      |extra_4|0.0      |infinity  |450.0    |0.0
114
115 **sailco_inventory**
116 period|Column      |LowerBound|UpperBound|Objective
    |Value
117 -----|-----|-----|-----|-----
    |-----
118 1      |inventory_1|0.0      |infinity  |450.0
    |0.0
119 2      |inventory_2|0.0      |infinity  |450.0
    |0.0

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120 3      |inventory_3|0.0      |infinity  |450.0
      |0.0
121 4      |inventory_4|0.0      |infinity  |450.0
      |0.0
122
123 **sailco_parameters**
124 name      |value
125 -----|-----
126 regularCost    |400.0
127 extraCost      |450.0
128 capacity       |40.0
129 initialInventory|10.0
130 inventoryCost   |20.0
131
132 **sailco_periods**
133 period
134 -----
135 1
136 2
137 3
138 4
139
140 **sailco_regular**
141 period|Column    |LowerBound|UpperBound|Objective|
      Value
142 -----|-----|-----|-----|-----|
      ----
143 1      |regular_1|0.0      |infinity  |400.0    |0
      .0
144 2      |regular_2|0.0      |infinity  |400.0    |0
      .0
145 3      |regular_3|0.0      |infinity  |400.0    |0
      .0
146 4      |regular_4|0.0      |infinity  |400.0    |0
      .0
147
148 **sailco_totalCost**
149 SUM( sailco_regular.objective * sailco_regular.

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149 value + sailco_extra.objective * sailco_extra.  
    value + sailco_inventory.objective *  
    sailco_inventory.value )
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150 -----  
    -----  
    -----  
    ----
```

```
151 0.0
```

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152
```

```
153 **singletons_table**
```

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154
```

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155
```

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156 Process finished with exit code 0
```

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157
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