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Dual is (Solution stpes of Dual by BigM method)

```
\mathsf{MAX}\,z_{y} = y_{1} + y_{2} + y_{3} + y_{4} - y_{5} - y_{6} - y_{7} - y_{8} - y_{9} - y_{10} - y_{11} - y_{12} - y_{13} - y_{14} - y_{15} - y_{16}
subject to
y_1 + y_2
                                                                                                                                              ≤ 12
              + y<sub>3</sub>
                                       - y<sub>6</sub>
                                                                                                                                             ≤ 13
y_1
                       + y_4
                                                - y<sub>7</sub>
y_1
                                                                                                                                             ≤ 14
 y_1 + y_2
                                                               , - y<sub>9</sub> - y<sub>10</sub> - y<sub>11</sub>
                                                                                                                                              ≤21
         y_2 + y_3
                                                                                                                                             ≤ 23
                                                                                                                                             ≤ 24
         y_2
           + y<sub>3</sub>
                                                                                                                                             ≤31
                                                                                            - y<sub>12</sub>
         y_2 + y_3
                                                                                                                                              ≤ 32
                                                                                                      - y<sub>13</sub>
                                                                                                                                              ≤ 34
                                                                                                                - y<sub>14</sub>
                                                                                                                                              ≤ 41
                       + y<sub>4</sub>
                                                                                                                          - y<sub>15</sub>
                                                                                                                                             ≤ 42
         y_2
                  y_3 + y_4
                                                                                                                                     - y_{16} \le 43
```

and $y_1, y_2, y_3, y_4, y_5, y_6, y_7, y_8, y_9, y_{10}, y_{11}, y_{12}, y_{13}, y_{14}, y_{15}, y_{16} \ge 0;$

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