

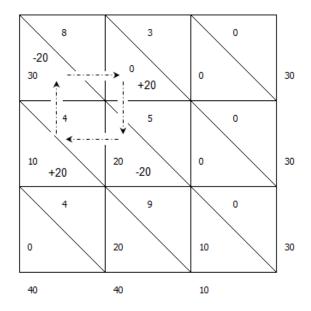
The total cost (by NWCST method) = $30 \times 8 + 10 \times 4 + 20 \times 5 + 20 \times 9 + 10 \times 0 = 560$ \$

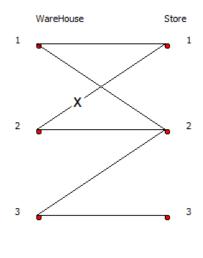
u1: 10 v1: 18 u2: 14 v2: 19 u3: 10 v3: 10

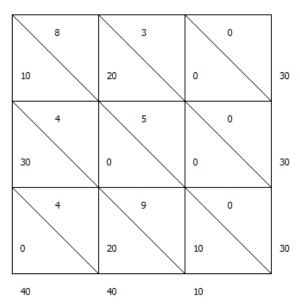
c12: 3 v2 - u1: 9 => decrease of \$6 c13: 0 v3 - u1: 0 => decrease of \$0 c23: 0 v3 - u2: -4 => decrease of \$-4

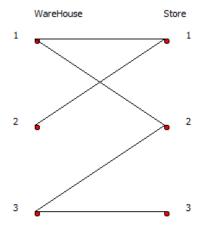
c31: 4 v1 - u3: 8 => decrease of \$4

Maximum reduction in transportation cost is given by c12, hence add edge (1,2) to the exisiting spanning tree



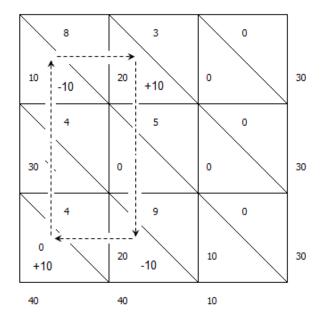


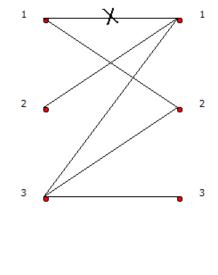




Total cost = 440

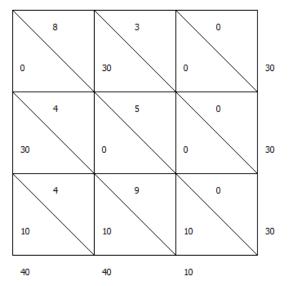
u1: 10 v1: 18 u2: 14 v2: 13 u3: 4 v3: 4 c13: 0 v3 - u1: -6 => decrease of \$-6 c22: 5 v2 - u2: -1 => decrease of \$-6 c23: 0 v3 - u2: -10 => decrease of \$-10 c31: 4 v1 - u3: 14 => decrease of \$10

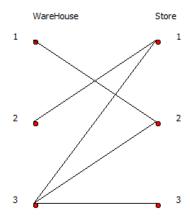




Store

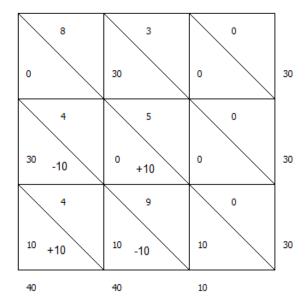
WareHouse

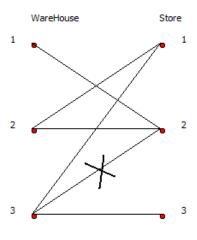


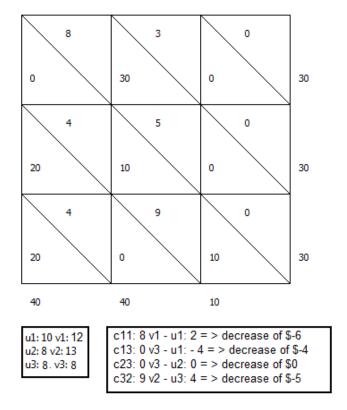


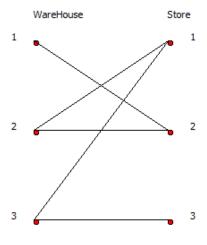
Total cost = 340

u1: 10 v1: 8 u2: 4 v2: 13 u3: 4 v3: 4 c11: 8 v1 - u1: -2 => decrease of \$-10 c13: 0 v3 - u1: -6 => decrease of \$-6 c22: 5 v2 - u2: 9 => decrease of \$4 c23: 0 v3 - u2: 0 => decrease of \$0









Reached the Optimal Solution.

Optimal cost = 300\$