

CD TUTORIAL 4

The MODI and VAM Methods of Solving Transportation Problems

DISCUSSION QUESTIONS

1. Vogel's approximation method gives a good initial solution because it makes each allocation on the basis of the opportunity cost, or penalty, that would be incurred if that allocation is not chosen. The northwest corner rule does not take into account the shipping costs associated with each route alternative as does VAM. Nevertheless, the northwest corner rule could provide as low-cost an initial solution—but only if, by chance, it turned out that the lowest-cost routes happened to be on the initially assigned squares.

2. The major difference between the MODI and stepping-stone methods is in the procedure used to test for optimality. In the stepping-stone method, we first draw a closed path for each of the empty squares to calculate its improvement index. Then, the most favorable square (i.e., the one with the largest negative index) is identified. In MODI, however, we first identify the most favorable square (by using row and column numbers) and then draw a closed path (only for that path) to direct us in improving the solution.

END-OF-TUTORIAL PROBLEMS

T4.1 (a) Hardrock's initial solution using the VAM method is shown below:

From \ To	A	B	C	Plant Capacity
1	20 10	50 4	11	70
2	12	5	8 50	50
3	9 20	7	6 10	30
Project Requirements	40	50	60	150

$$\text{Cost} = 20(\$10) + 50(\$4) + 50(\$8) + 20(\$9) + 10(\$6) = \$1,040$$

(b, c) Since this solution is optimal, total cost remains unchanged, at \$1,040.

T4.2 Hardrock's problem now requires the addition of a dummy project (destination) because supply exceeds demand. The VAM initial solution is as follows:

From \ To	A	B	C	Dummy	Capacity
1	20 10	50 4	11	0	70
2	12	5	8 50	0	50
3	9 20	7	6 10	0	60
Requirements	40	50	60	50	180

$$\begin{aligned} \text{Cost of initial solution} &= 20(\$10) + 50(\$4) + 50(\$8) \\ &\quad + 20(\$9) + 10(\$6) + 30(\$0) \\ &= \$1,040 \end{aligned}$$

This is the same initial assignment and cost as that found in Problem T4.1.

The optimal solution, whose total cost is also \$980, is shown in the following table. An alternate optimal solution also exists:

From \ To	A	B	C	Dummy	Capacity
1	20 10	50 4	11	0	70
2	12	5	8 20	0 30	50
3	9 20	7	6 40	0	60
Requirements	40	50	60	50	180

T4.3 (a) Using the northwest corner rule for the Sassy Lumber Company data, the following initial solution is reached:

From \ To	Customer 1	Customer 2	Customer 3	Capacity
Pineville	25 3	3	2	25
Oak Ridge	4 5	2 30	3 5	40
Mapletown	3	2	3 30	30
Demand	30	50	15	95

$$\text{Initial cost} = 25(\$3) + 5(\$4) + 30(\$2) + 5(\$3) + 30(\$3) = \$360$$

The Modi And Vam Methods Of Solving Transportation Problems

Jay Heizer



The Modi And Vam Methods Of Solving Transportation Problems:

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