Indian Institute of Technology Ropar
Department of Mathematics
MA303: Computing Lab II
2nd semester of academic year 2024-25

Lab Sheet-7 (Contd.)
Transportation Problems (VAM)

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1. Write a detailed code by classifying the problems (balanced/unbalanced), and solutions (degenerate/non-degenerate) to find out the initial basic feasible solutions and the optimal solution for the following transportation problems using Vogel's Approximation Method. Compare the results with the NW corner rule and the Least cost rule. Also if possible, print the distributions as an output (e.g. A1 to B2, A3 to B3, and so on).

	B1	B2	B3	Supply
A1	5	1	7	10
A2	6	4	6	80
A3	3	2	5	50
Demand	75	20	50	-

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