

A SCIENTIFIC COMPUTATION ON A PECULIAR CASE OF GAME THEORY IN OPERATIONS RESEARCH

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ABSTRACT

A peculiar case of game theory problem is investigated with the help of Brown's Algorithm in this paper. The problem acquaints the dominance nature for both rows and columns. It is constituted with the scenario of increasing in an action B1 to B15 of player B with the addition of successive natural numbers according to the influences of action A1 to A15 of Player A. Some remarkable conclusions are established by computing maximum number of possible iterations in the classical Java program .The results are given in the conclusions and also shown in the graphs. The errors are estimated for each computation and the Lower bounds and Upper bounds are also traced.The corelations between the iterations are obtained.

KEYWORDS: Game Theory, Players, Strategy, Pay-Off Matrix, Optimal Solution, Lower Bound, Upper Bound

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