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Abstract: This paper wants to continue the studies for a class of problems named constant sum integer programming introduced earlier. This approach tries to see what is happening when a variation appears in right hand of constant sum condition. In this paper I prove that limited variation influence no more than 3 model variables in model optimum and there is a way to say which these variables are. My consideration could be important if we want to transform a constant sum condition in a stochastic form.

Keywords: linear programming, combinatorial optimization, percentage programming