Heuristics for Determining the Number of Warehouses for Storing Non-Compatible Products

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Abstract
In the classical knapsack problem, the objective is to minimise the number of warehouses needed to store given items, each with some space requirements. We discuss a version of this problem, where some of the items are incompatible with each other, and cannot be stored together. We apply some newly developed heuristics to this problem and compare the results with other available algorithms. The computational results indicate that higher quality solutions can be obtained using the new heuristics.

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