

The minimum sum

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Abstract

In this paper, we propose an idea of TSP-algorithm for any graph.

1 Introduction and results

In general, the weighted graph has a minimum and maximum. Indeed, the sum of small numbers is a small number too. Just one large number can affect the summation. We assume the sum is finite. The sum is denoted by Σ .

Definition 1.1. A number is close to the minimum denoted by ℓ .

Definition 1.2. A number is close to the maximum denoted by μ .

Definition 1.3. N denotes the number of terms in Σ .

Thus, the object of the traveling salesman problem (TSP) is the minimization of the weights-summation in a graph.

Thereby, we introduce the method for solving the TSP. The method has three steps:

1. The sum Σ must contain the small totality of the numbers μ .
2. The sum Σ should be dominated by the numbers ℓ .
3. N should be small.

This method can be applied to any graph.