

Battle of Neighbourhoods-Problem

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1)Introduction:

1.1. Background:

Tom is a Resident of Parkwood, Toronto. His family includes his wife, 10-year-old son and himself. His firm is offering him a promotion with great future prospects but he has to relocate to New York for this opportunity. Tom is inclined to accept this offer and his only problem is finding a similar great neighbourhood in New York as Parkwood.

1.2. Quantification:

Tom decides to find out the most important factors that make Parkwoods a great neighbourhood for his family. If he can quantify the compatibility of a neighbourhood, it will make the job of finding a similar neighbourhood easy. After giving it considerable thought, he came up with the following factors making a good neighbourhood for them:

- 1) Plenty of Shops and Services making daily life easy.
- 2) A great number of food venues available.
- 3) Good transportation services.
- 4) Less Nightlife spots in the neighbourhood.

1.3. Problem:

This makes the problem clearer. The steps involved in problem-solving are:

- 1) Find all the venues in the neighbourhood of Parkwoods.
- 2) Categorize the venues in different categories. i.e. food, shops, transport etc.
- 3) Assign proper weight to each category according to the factors specified above.
- 4) Find the total score of the neighbourhood using the weights and number of venues in each category.
- 5) Find the total score of each neighbourhood in New York using same weights.
- 6) Separate the neighbourhoods having total score more than Parkwoods, same as Parkwoods, less than Parkwoods.

Provide the separated list of neighbourhoods to Tom to help him decide which one to select for relocation.