

Shortest Path for Visiting all Pagodas of Sagaing City

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This paper discusses the application of Dijkstra's algorithm in graph theory to estimate the shortest route to fourteen pagodas in Sagaing City, Myanmar. This algorithm can be used to find the shortest paths in a positive weight graph from a single destination node by denoting permanent if it has been determined. Then the distances of the ways to the near pagodas by road are measured. We can create the graph so that the pagodas are its vertices and the roads between nearby pagodas are its edges. Then we can represent the problems by analyzing graphs. Using Dijkstra's algorithm, the shortest possible paths are calculated. The resulting computations direct us to the shortest way to visit the famous pagodas in Sagaing City.



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