

Re: walks in graphs

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bmoore822@hotmail.com wrote:

- > *Is there a special term for a closed walk in a graph that visits each*
- > *node?*
- >
- > *Is there an algorithm for finding the smallest such walk?*

The term you're looking for is a "Hamiltonian Circuit". It is defined as a closed path through a graph that visits each node at least once.

Attempting to find an algorithm that discovers that smallest such walk is called the "Travelling Salesman Problem;" it is NP-Complete.

For more, loop up the above terms at <http://mathworld.wolfram.com>. Hope this helps.

Breckin