

12/04/2023

Monday, April 18, 2022 12:29 PM

Utility functions:

Graphs:

Nodes

Formal definition of search:

State space: All states

Successor function for Ticket to Ride:

Uninformed search:

Start in Winnipeg, only 4 paths out, final destination of little rock

Fringe: possible space that I can expand upon

Iteratively exploring the space

Check if the goal is found

Repeat until the goal is found

Return the cities we went through on our way to Little Rock

Quality:

Time

Space

For Ticket to Ride, it's the shortest path possible

BFS for the Siri ice cream thing:

State Space: the internet

Start state: eastsideprep.org

Successor function:

Fetch a website

Add to number of clicks

Get all associated links

Goal state: A website with an explanation of what purple cow ice cream is

DFS for maze

State Space: possible places to go at an intersection

Start state: start of maze

Successor function:

Goal state: end of maze

Utility: how far do we have to go