CISC 681 – AI, HW1 Pancake flipping

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Basic Idea:

In this program, two different algorithms are used: BFS and A\*. Each algorithm is written in the similar way. The difference is they have different implementations of how nodes are chosen in fringe. Expand function is used for expanding a node and generate four possible nodes. For Each algorithm, the final return is the visited list. An output display function is used to process the visited list to generate the correct order of nodes visited and print out the result.

In order to run code just use command

```

python3 AI HW1 pancake .py

```

For BFS, each node is simple a list will current state. For A\*, the result should be a list of three tuples contains state, g cost and f total cost.

One example is shown below:

The input is ‘4w2b3b1w’.

图片包含 屏幕截图

描述已自动生成