Sokoban Search

CS3346 Assignment 1

Sokoban Project

State: robots, boxes, storage, obstacles

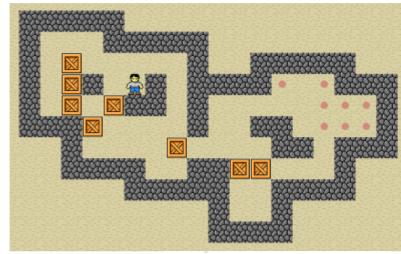
Actions: UP, DOWN, RIGHT, LEFT

Cost: forward cost h(n), backward cost g(n)

Successors: Update state with new robots and boxes locations

Goal: all boxes in the storage

Sokoban.py



```
ACTION was START
######
#.### #
# $a #
# #
# b #
# #####
```

Search algorithms

Anytime Greedy Best-First Search

Keep searching a better path with lower h(n),

until either there are no nodes left to expand or it runs out of time.

Anytime Weighted A*

Continue to search nodes with cost of f = g(n) + weight * h(n),

decreasing w at each iteration,

until either there are no nodes left to expand or it runs out of time.

