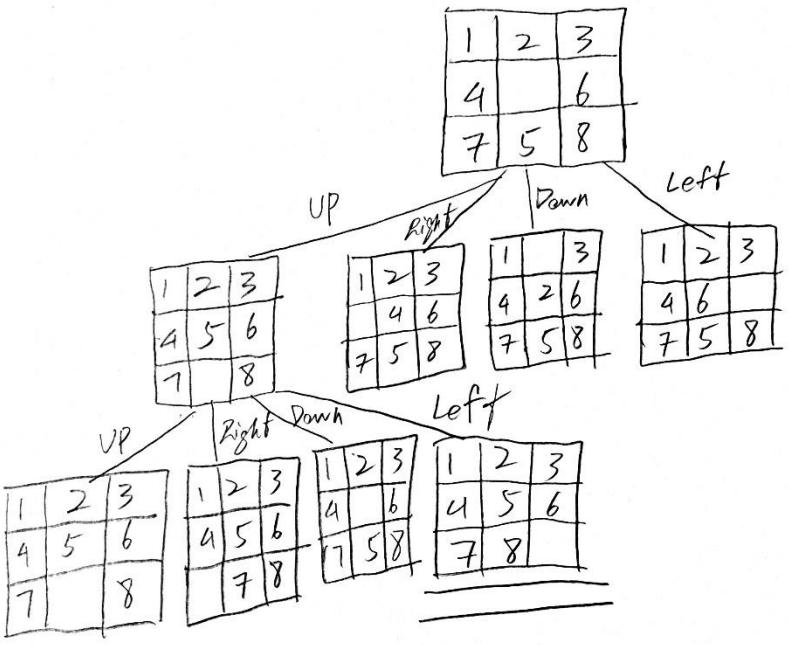
Haorui Zhang

9-14-2021

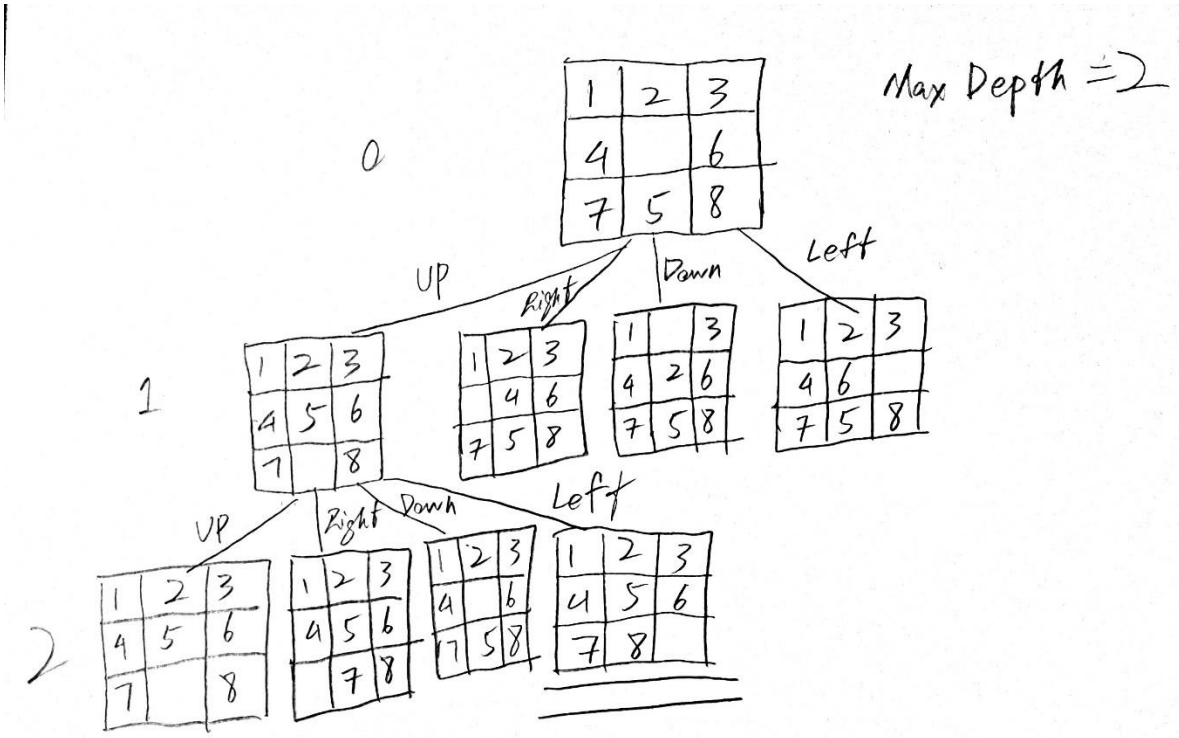
CS 440 HW3

1.

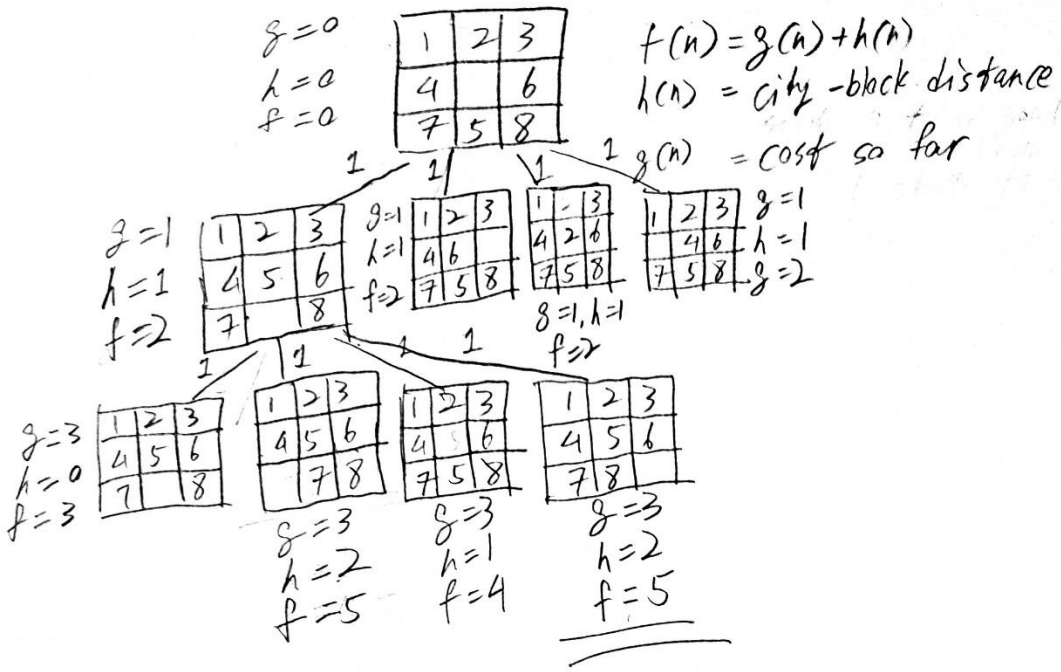
a. BFS



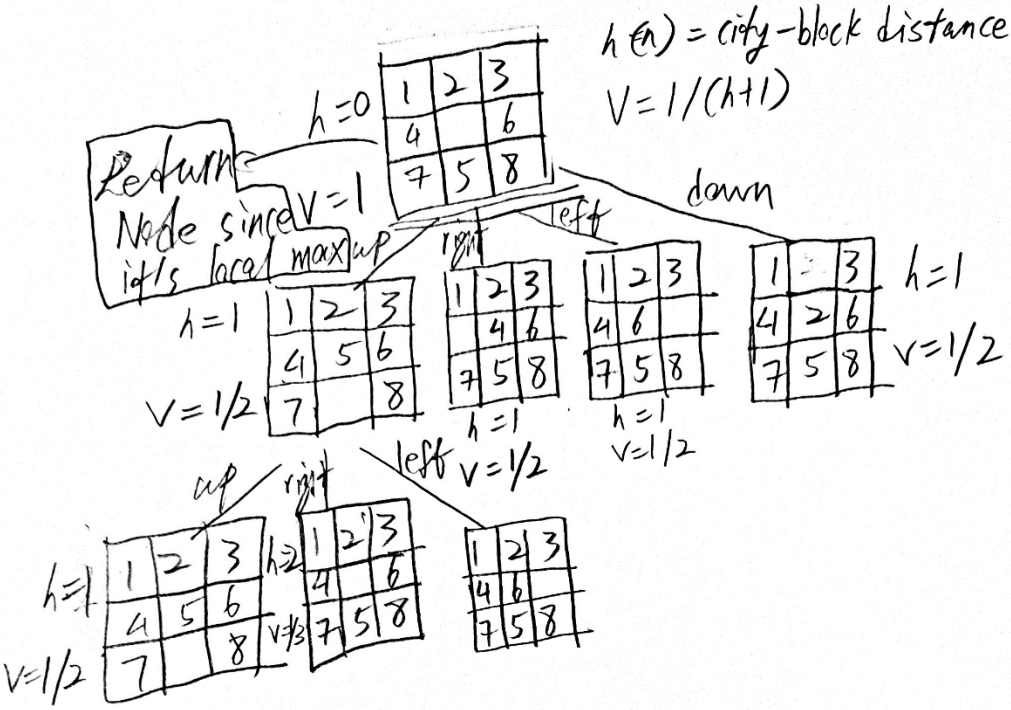
b. Iterative-deepening Search



c. A*



d. Hill-climbing


h(n) = city-block distance
V = 1/(h+1)
h=0
1 2 3
4 6
7 5 8
Return
Node since V=1
it's local max
up
right
left
down
h=1
V=1/2
h=1
V=1/2
h=1
V=1/2
h=1
V=1/2
left V=1/2
up
right
h=2
V=1/3
h=1
V=1/2