

Closed list : traversal order

Open List : Nodes to explore (adjacent to current node)

↳ Given by moveGen function

DFS

Path

$S \rightarrow A \rightarrow E \rightarrow K \rightarrow F \rightarrow J \rightarrow B \rightarrow C \rightarrow G \rightarrow L \rightarrow M \rightarrow H \rightarrow I \rightarrow D$  } Closed List

Step

Open

current

1

A, D

S

2

E, J, B

A

3

A, J, K

E

⋮

Open Set = moveGen(current), following traversal order

BFS

Path

$S \rightarrow A \rightarrow B \rightarrow C \rightarrow D \rightarrow E \rightarrow J \rightarrow F \rightarrow G \rightarrow H \rightarrow I \rightarrow K \rightarrow L \rightarrow M$

closed Set : visited nodes

Openset = moveGen(current), following traversal order

x: Westbound

o: East bound

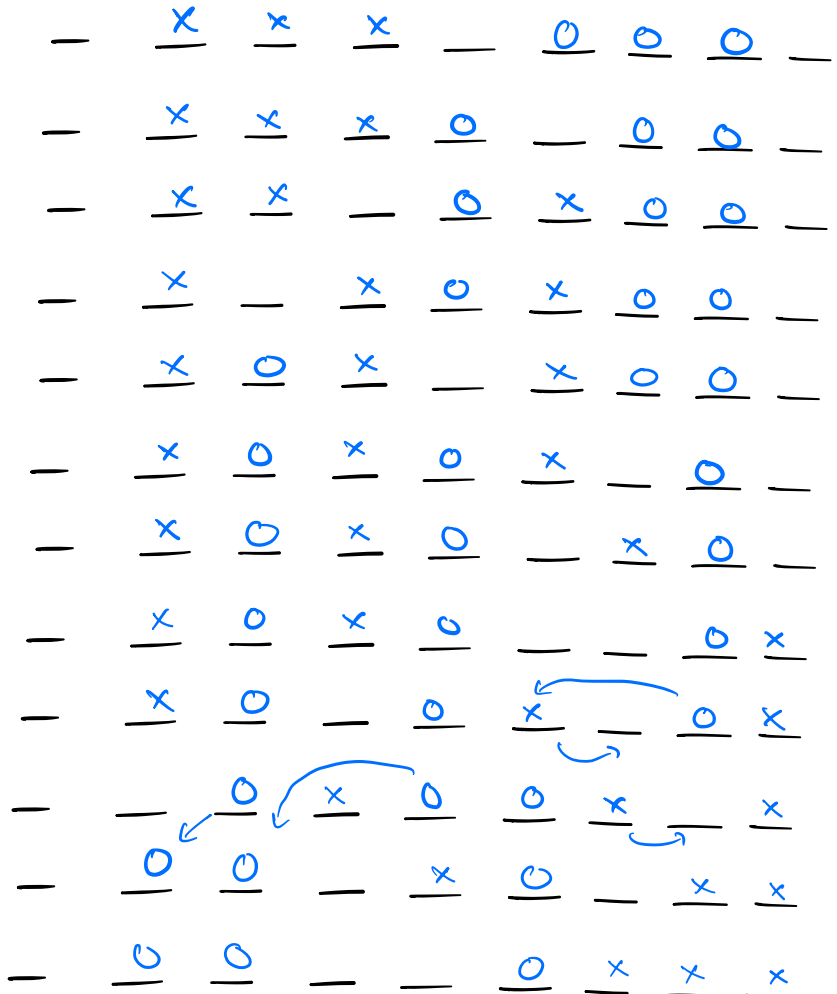
State space Graph:



9 cells, each can contain 'x', 'o', or be empty

Solution Path

for State Space Graph



DONE!