Simon Chen sc4900 N10013388 Maze Extra Credit

- means path tried
- 1) Problem 1 will transverse less than problem 3 when the goal is left or right, more so than down/up. This is the case because the queue will always transverse what it is given first. In my scenario it was given Left, Right, Up, Down first.

Maze when 1 is faster:

XXXXXXXXXXXXXXXX

S.X...X....XXX

X.X.X.X.XX.X.XXXX

x...x...xx.x..e.xx

XXX.X..XXX...XX.XX

XXX.XX...XX

xxx...x.xxxxxxxxx

XXXXX.X....XXX

XXXXXXXXXXXXXXXX

Problem 1 iterations:

X.X.X.X.XX.X..--XX

x...x...xx.x..e.xx

XXX.X..XXX...XX

xxx.xx..xx...xx

XXX...X.XXXXXXXXX

XXXXX.X....XXX

XXXXXXXXXXXXXXXX

Problem 3 iterations:

-----X

---.X

-.-.X.-..XX.-..-X

-...x...xx.-..e.-x

---.X..XXX...XX.XX

---.XX..XX.....XX

---...X.XXXXXXXXX

----X.....XXX

XXXXXXXXXXXXXXXX

Problem 1 iterations:

Problem 3 iterations:

----XXXXXXXXXXXXX

---..X....XXX

-.-.X.X.XX.X..XXXX

-...X...XX.X..XX

---.X..XXX...XX.XX

---.XX..XX.....XX

--X...X.XXXXXXXXX

exxxx.x....xxx

XXXXXXXXXXXXXXXX

2) Problem 1 will transverse less than problem 2 when the goal is left or right, more so than down/up. This is the case because the queue will always transverse what it is given last. In my scenario it was given Left, Right, Up, Down first.

Maze when 1 is faster:

XXXXXXXXXXXXXXXX

S.X...X....XXX

X.X.X.X.XX.X.XXXX

x...x..xx.x..e.xx

XXX.X..XXX...XX

XXX.XX...XX

XXX...X.XXXXXXXXXX

XXXXX.X....XXX

XXXXXXXXXXXXXXXX

Problem 1 iterations:

Problem 2 iterations:

Problem 1 iterations:

XXXXXXXXXXXXXXXX

Problem 2 iterations:

XXXXXXXXXXXXXXXX

X.X...X....XXX

-.X.X.X.XX.X

-...x...xx.x..x.xx

-xx.x..xxx...xx

-XX.XX...XX

-xx...x.xxxxxxxxx

exxxx.x....xxx

xxxxxxxxxxxxxxxxxxx