AI Planning for Autonomy

Solution Problem Set III: Choosing Heuristics

1.

x and y are coordinates, and v are the coordinates that remain to be visited. The rest of the questions are discussion questions for class or on LMS forum.

2.

F={ at(x,y), visited(x,y) | x,y $\in \{0, \ldots, m\}$ },
A= { move(x,y,x',y'):

- Prec: at(x,y)
- Add: at(x',y'), visited(x',y')
- Del: at(x,y)

| for each adjacent (x,y), (x',y') }
I = {at(0,0)}
F = {visited(x,y) | (x,y) $\in$ V}