

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.

$F = \{ \text{at}(x,y), \text{visited}(x,y) \mid x,y \in \{0, \dots, m-1\} \},$

$A = \{ \text{move}(x,y,x',y') :$

- Prec: $\text{at}(x,y)$
- Add: $\text{at}(x',y'), \text{visited}(x',y')$
- Del: $\text{at}(x,y)$

$\mid \text{for each adjacent } (x,y) (x',y'), \text{ and } (x',y') \notin W \}$

$I = \{ \text{at}(0,0) \}$

$F = \{ \text{visited}(x,y) \mid (x,y) \in V \}$