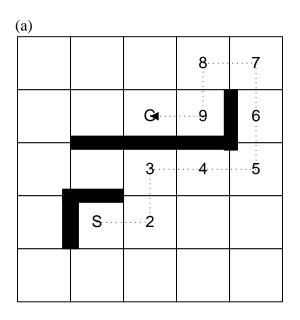
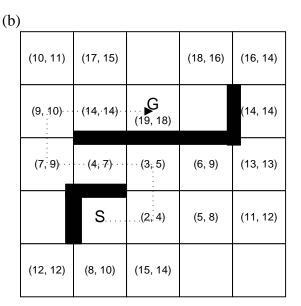
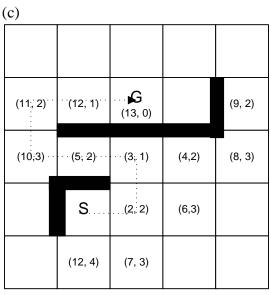
## Question 1 (20 Points)

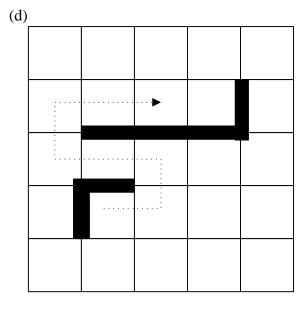
## For question

- (a) (x): x represents expanded sequence number
- (b) (x, y): x represents expanded sequence number, and y represents cost
- (c) (x, y): x represents expanded sequence number, and y represents h(n)
- (d) (x, y): x represents expanded sequence number, and y represents g(n)



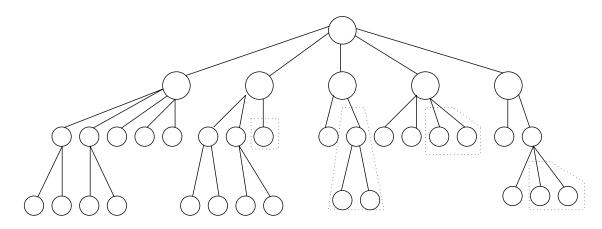






Question 2: (20 points)

(a)



Question 3: (60 Points)

[-inf,

3 2 0 -1 [3, inf] [2, 3]