Homework 2

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CS32

Question2：

(6,5)

(6,6)

(6,4)

(7,4)

(8,4)

(8,3)

(8,2)

(8,1)

(7,1)

(6,3)

(5,5)

(4,5)

Question 4：

(6,5)

(5,5)

(6,4)

(6,6)

(4,5)

(6,3)

(7,4)

(3,5)

(4,4)

(8,4)

(2,5)

(4,3)

The stack way fully checks along a path until it reaches the solution of a maze or find dead-end. It then starts over again to fully check along another pathway. (the nearest branch point will be checked when we are using stack).

The queue way visits all possible positions around the start, then all possible position 2 unit away front the start and so on until a dead end is reached or the solution of the maze is found. By using a queue, the program first checks the positions near the start since they are the earliest to be put into the queue and hence are checked first.