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Professor Smallberg

Computer Science 32

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HW 2 Report

**Problem 2)**

(5, 3) (5, 4) (5, 5) (5, 6) (5, 7) (5, 8) (4, 8) (3, 8) (2, 8) (1, 8) (6, 8) (7, 8)

**Problem 4)**

(5, 3) (6, 3) (4, 3) (5, 4) (4, 2) (3, 3) (5, 5) (4, 1) (4, 5) (5, 6) (3, 1) (3, 5)

Differences in the algorithms (stack vs queue):

The stack operates as last in, first out. The stack traverses a path until it got to a dead end (X) then the current coordinate would become the last place it had a decision (intersections). The queue operates as first in, first out. The queue would move one step forward in each possible path until the path reached a dead end.