2. The first 12 (r,c) coordinates popped off the stack by the algorithm are:

(6,4), (6,3), (6,5), (7,5), (8,5), (8,6), (8,7), (8,8), (7,8), (6,6), (5,4), (4,4);

4. The first 12 (r,c) coordinates popped from the queue in the queue-based algorithm are:

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

The different order of coordinates is caused by the different data structure of stack and queue. Since stack will pop out the most recent added element, so the stack-based algorithm is searching the path one by one(check one path until this path ends), but queue will pop the least recent added element(the end of queue), so the queue-based algorithm is searching the all possible path together(check one possible move for every path, then check next possible move for every path, and keep going).