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CS 32 Lec 1

Homework 2

1. First 12 coordinates popped off by stack
2. (3 , 5)
3. (3 , 6)
4. (3 , 4)
5. (2 , 4)
6. (1 , 4)
7. (1 , 3)
8. (1 , 2)
9. (1 , 1)
10. (2 , 1)
11. (3 , 3)
12. (4 , 5)
13. (5 , 5)
14. First 12 Coordinates popped off Queue

The two codes are practically identical beside the fact that one uses a stack and the other uses a queue. The stack algorithm fully explores one path until it reaches a dead end, whereas the queue algorithm searches one step at a time in each direction, making it more efficient.

1. (3 , 5)
2. (4 , 5)
3. (3 , 4)
4. (3 , 6)
5. (5 , 5)
6. (3 , 3)
7. (2 , 4)
8. (6 , 5)
9. (5 , 4)
10. (1 , 4)
11. (7 , 5)
12. (5 , 3)