

**Algorithm:**

1. Scan the entire maze until you find the “E” point.
2. Start at the “E” point.
3. Scan your surroundings for walls (X) or paths you’ve taken (.).
4. Out of the paths that don’t have walls, go forward.
  - a. If the left is not an open space, go right.
  - b. If there is no open space right, go left.
  - c. Leave a “.” on the path you’re taking, so you know where you’ve been
    - i. Save a checkpoint every time you make a choice between left, right, or forward.
5. Keep going until there is no right, left, or forward. (Repeat steps 3 and 4)
6. If you find “S”, you’re at the exit point.
7. If you don’t, go back to the most recent checkpoint, and repeat the process until you find “S”.
8. You’re done!