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Pseudocode

1. Locate "E" (entrance) and "S" (exit).
2. Begin in the character 'E'
3. Begin trying different paths in all directions.
4. Go left if there is.
5. If there is no left, go up.
6. If there is nowhere to go through there, try right or down.
7. If you hit a dead end, return to the last position.
8. Each time we have more than one path we must save that position.
9. From there, attempt going left.
10. If there is no left, try to go upwards.
11. If you cannot do so, go right or downwards.
12. For each step, repeat the process of checking available paths in every direction and add 1 to the number of steps.
13. If by trying these alternatives you've reached the exit, or "S", check if there is more than one way to get to it.
14. Once you find the path to the exit with least amount of steps, if there is more than one way, take that route.

Flowchart