How To Create A Path Finding Maze.

**A picture containing map, clock

Description automatically generated**

**A picture containing clock

Description automatically generated**

**Visited:** [1, 2, 4, 3]

**A picture containing clock

Description automatically generated**

**STEP 1: Matrix**

[[1, 2, 3, 4, 5, 6, 7, 8, 9, 10],

[11, 12, 13, 14, 15, 16, 17, 18, 19, 20],

[21, 22, 23, 24, 25, 26, 27, 28, 29, 30],

[31, 32, 33, 34, 35, 36, 37, 38, 39, 40],

[41, 42, 43, 44, 45, 46, 47, 48, 49, 50],

[51, 52, 53, 54, 55, 56, 57, 58, 59, 60],

[61, 62, 63, 64, 65, 66, 67, 68, 69, 70],

[71, 72, 73, 74, 75, 76, 77, 78, 79, 80],

[81, 82, 83, 84, 85, 86, 87, 88, 89, 90],

[91, 92, 93, 94, 95, 96, 97, 98, 99, 100]]

**STEP 2: Obstacles**

[1, 2, **0**, 4, 5, 6, 7, 8, **0**, 10],

[ **0**, 12, 13, 14, 15, **0**, 17, 18,  **0**,  **0**],

[ **0**, 22,  **0**,  **0**,  **0**, 26, 27,  **0**,  **0**,  **0**],

[ **0**,  **0**, 33, 34, 35, 36,  **0**, 38, 39, 40],

[41, 42, 43, 44, 45, 46, 47, 48, 49, 50],

[51, 52,  **0**, 54, 55,  **0**, 57, 58, 59, 60],

[61, 62, 63, 64,  **0**, 66,  **0**, 68,  **0**, 70],

[71,  **0**, 73, 74, 75, 76, 77,  **0**,  **0**,  **0**],

[81,  **0**, 83, 84, 85, 86, 87, 88, 89,  **0**],

[ **0**, 92,  **0**, 94, 95,  **0**, 97, 98, 99, 100]]

A picture containing crossword, text, fruit

Description automatically generated **STEP 3: Border**

[[**0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0**],

[**0,** 1, 2, **0**, 4, 5, 6, 7, 8, **0**, 10**, 0**],

[**0, 0**, 12, 13, 14, 15, **0**, 17, 18,  **0**,  **0, 0**],

[**0, 0**, 22,  **0**,  **0**,  **0**, 26, 27,  **0**,  **0**,  **0, 0**],

[**0, 0**,  **0**, 33, 34, 35, 36,  **0**, 38, 39, 40**, 0**],

[**0,** 41, 42, 43, 44, 45, 46, 47, 48, 49, 50**, 0**],

[**0,** 51, 52,  **0**, 54, 55,  **0**, 57, 58, 59, 60**, 0**],

[**0,** 61, 62, 63, 64,  **0**, 66,  **0**, 68,  **0**, 70**, 0**],

[**0,** 71,  **0**, 73, 74, 75, 76, 77,  **0**,  **0**,  **0, 0**],

[**0,** 81,  **0**, 83, 84, 85, 86, 87, 88, 89,  **0, 0**],

[**0, 0**, 92,  **0**, 94, 95,  **0**, 97, 98, 99, 100**, 0**],

[**0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0**]]

**STEP 4: Create Graph**

graph = { 1:[2], 2:[1,12], 4:[14,5], 6:[5,7], 7:[6,17,8] . . . . . . . . . 100:[99]}

**STEP 5: Depth First Search**

visited = {1, 2, 12, 13, 14, 15, 5, 6, 7 . . . . . . . . . 100}

**STEP 6: Display Path**

A picture containing crossword, text, drawing

Description automatically generated