CISP 430

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Assignment 3

MAZE RECURSION

Maze 1 Source code:

/*

A recursive algorithm to determine all possible paths through a maze.

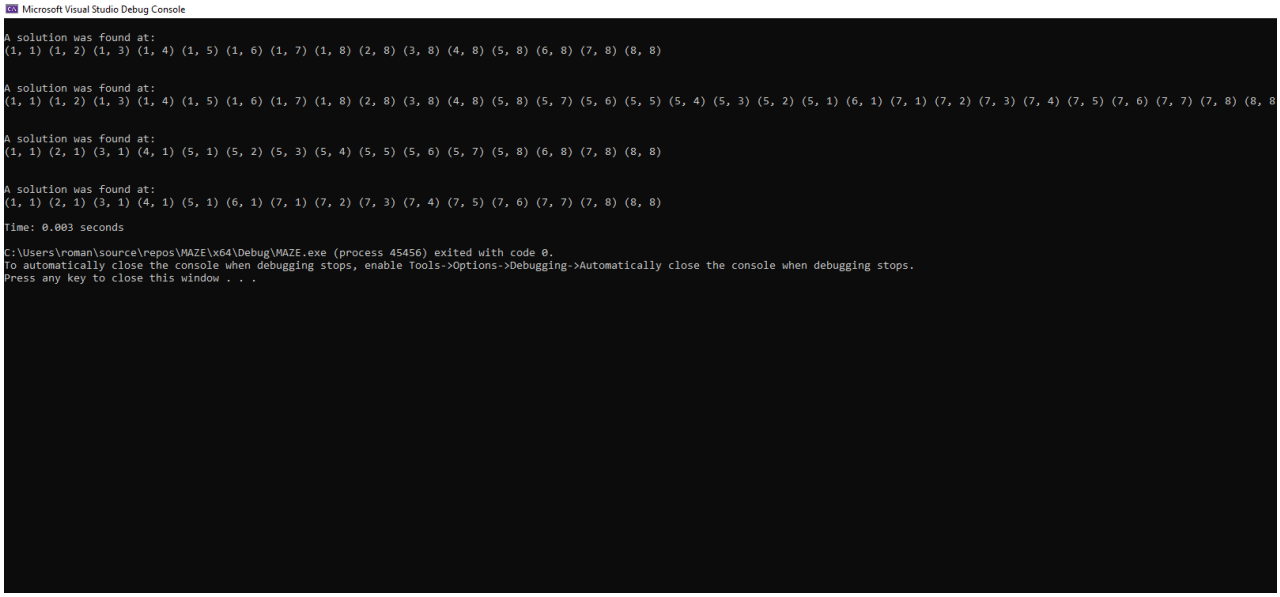
Dan Ross,

```
#include <iostream>
using namespace std;

#define SIZE 10
//#define DEBUG

struct cell_type {
int row;

int col;
int dir;
};
typedef struct cell_type Cell;



Cell sol[SIZE * SIZE];

// the maze
int maze[SIZE][SIZE] = {
1,1,1,1,1,1,1,1,1,1,
1,0,0,0,0,0,0,0,0,1,
1,0,1,1,1,1,1,1,0,1,
1,0,1,0,0,0,0,1,0,1,
1,0,1,1,1,1,1,1,0,1,
1,0,0,0,0,0,0,0,0,1,
1,0,1,1,1,1,1,1,0,1,
1,0,0,0,0,0,0,0,0,1,
1,1,0,1,1,1,1,1,0,1,
```

```
1,1,1,1,1,1,1,1,1,1
};


// FUNCTION PROTOTYPES
void build(int);
void printSolution(int); int is_safe(int);
int getNextCell(int);


int main(void)
{

	sol[0].row = 1;
	sol[0].col = 1;
	sol[0].dir = 0;

	clock_t start = clock();
	// start recursive solution
	build(0);
	clock_t end = clock();


	cout << "Time: " << (end - start) / (double)CLOCKS_PER_SEC << " seconds" <<
endl;
}




void build(int n)
{

	while (getNextCell(n)) {

#ifdef DEBUG
		printf("Iteration: %d\tAt: (%d, %d)\t Trying: (%d, %d)\n", n,
sol[n].row, sol[n].col, sol[n + 1].row, sol[n + 1].col);
#endif

		if (is_safe(n)) {


			if (sol[n + 1].row == SIZE - 2 && sol[n + 1].col == SIZE - 2)

				printSolution(n + 1);
			else

				build(n + 1);
		}
	}
}






void printSolution(int n)
{
	int i;
```

```
	printf("\nA solution was found at:\n"); for (i = 0; i <= n; i++)
		printf("(%d, %d) ", sol[i].row, sol[i].col); printf("\n\n");
}



int getNextCell(int n)
{

	sol[n + 1].row = sol[n].row;
	sol[n + 1].col = sol[n].col; sol[n + 1].dir = 0;


	switch (sol[n].dir) {
case 0: sol[n].dir = 'e';
	sol[n + 1].col++;

return 1; case 'e':
	sol[n].dir = 's'; sol[n + 1].row++; return 1;
case 's':
	sol[n].dir = 'w';
	sol[n + 1].col--; return 1;
case 'w':
	sol[n].dir = 'n';
	sol[n + 1].row--; return 1;
case 'n':
	return 0;    // all directions have been tried
}
return 0;    // make compiler happy
}

int is_safe(int n)
{
	int i;



	if (maze[sol[n + 1].row][sol[n + 1].col])
		return 0;

	for (i = 0; i < n; i++)

	if (sol[n + 1].row == sol[i].row && sol[n + 1].col == sol[i].col) return 0;

	return 1;
}
```

Output:


Microsoft Visual Studio Debug Console
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (5, 7) (5, 6) (5, 5) (5, 4) (5, 3) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (7, 4) (7, 5) (7, 6) (7, 7) (7, 8) (8, 8
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (5, 2) (5, 3) (5, 4) (5, 5) (5, 6) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (7, 4) (7, 5) (7, 6) (7, 7) (7, 8) (8, 8)
Time: 0.003 seconds
C:\Users\roman\source\repos\MAZE\x64\Debug\MAZE.exe (process 45456) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .

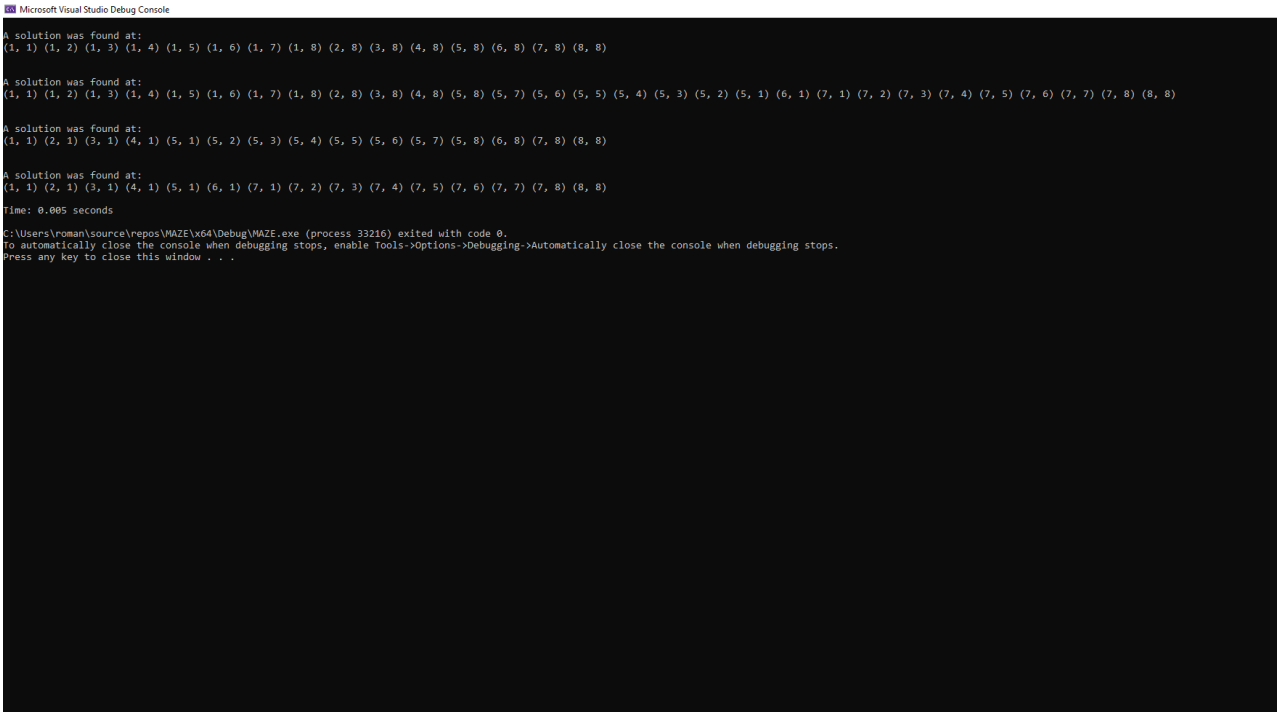
Maze 2 Source Code:

```
/*
   A recursive algorithm to determine all possible paths through a maze.


   Dan Ross
 */
#include <iostream>
using namespace std;

#define SIZE 10
//#define DEBUG


// GLOBAL DATA




struct cell_type {
int row;
int col;
int dir;
};
typedef struct cell_type Cell;



Cell sol[SIZE * SIZE];


int maze[SIZE][SIZE] = {
1,1,1,1,1,1,1,1,1,1,
1,0,0,0,0,0,0,0,0,1,
1,0,1,1,1,0,1,1,0,1,
1,0,1,0,0,0,0,1,0,1,
1,0,1,1,1,1,1,1,0,1,
1,0,0,0,0,0,0,0,0,1,
1,0,1,1,1,1,1,1,0,1,
1,0,0,0,0,0,0,0,0,1,
1,1,0,1,1,1,1,1,0,1,
1,1,1,1,1,1,1,1,1,1
};


// FUNCTION PROTOTYPES
void build(int);
void printSolution(int); int is_safe(int);
```

```
int getNextCell(int);


int main(void)
{
	// set starting position and direction
	sol[0].row = 1;
	sol[0].col = 1;
	sol[0].dir = 0;


	clock_t start = clock();
	// start recursive solution
	build(0);
	clock_t end = clock();


	cout << "Time: " << (end - start) / (double)CLOCKS_PER_SEC << " seconds" <<
endl;
}


void build(int n)
{

	while (getNextCell(n)) {

#ifdef DEBUG
	printf("Iteration: %d\tAt: (%d, %d)\t Trying: (%d, %d)\n", n, sol[n].row,
sol[n].col, sol[n + 1].row, sol[n + 1].col);
#endif

	if (is_safe(n)) {


	if (sol[n + 1].row == SIZE - 2 && sol[n + 1].col == SIZE - 2)
		// print the solution so far
		printSolution(n + 1);
	else

		build(n + 1);
}
}
}



void printSolution(int n)
{

	int i;


	printf("\nA solution was found at:\n"); for (i = 0; i <= n; i++)
		printf("(%d, %d) ", sol[i].row, sol[i].col); printf("\n\n");
}



int getNextCell(int n)
{
	// set initial position and direction for the next cell
	sol[n + 1].row = sol[n].row;
	sol[n + 1].col = sol[n].col; sol[n + 1].dir = 0;
```

```
	switch (sol[n].dir) {
case 0: sol[n].dir = 'e';
	sol[n + 1].col++; return 1;
case 'e': sol[n].dir = 's';
	sol[n + 1].row++; return 1;
case 's': sol[n].dir = 'w';
	sol[n + 1].col--;

return 1; case 'w':
	sol[n].dir = 'n';
	sol[n + 1].row--; return 1;
case 'n':
	return 0;    // all directions have been tried
}
return 0;    // make compiler happy
}



int is_safe(int n)
{
	int i;



	if (maze[sol[n + 1].row][sol[n + 1].col]) return 0;


	for (i = 0; i < n; i++)

	if (sol[n + 1].row == sol[i].row && sol[n + 1].col == sol[i].col) return 0;

	return 1;
}
```

Output:



Maze 3 Source Code:

/*

A recursive algorithm to determine all possible paths through a maze.

Dan Ross,

*/

```
#include <iostream>
using namespace std;

#define SIZE 10
//#define DEBUG


// GLOBAL DATA



struct cell_type {
int row;
int col;
int dir;  //
};
typedef struct cell_type Cell;


Cell sol[SIZE * SIZE];

// the maze
int maze[SIZE][SIZE] = {
1,1,1,1,1,1,1,1,1,1,
1,0,0,0,0,1,1,0,0,1,
1,0,1,1,0,0,1,1,1,1,
1,0,0,0,0,1,0,0,0,1,
1,1,0,1,1,0,0,1,1,1,
```

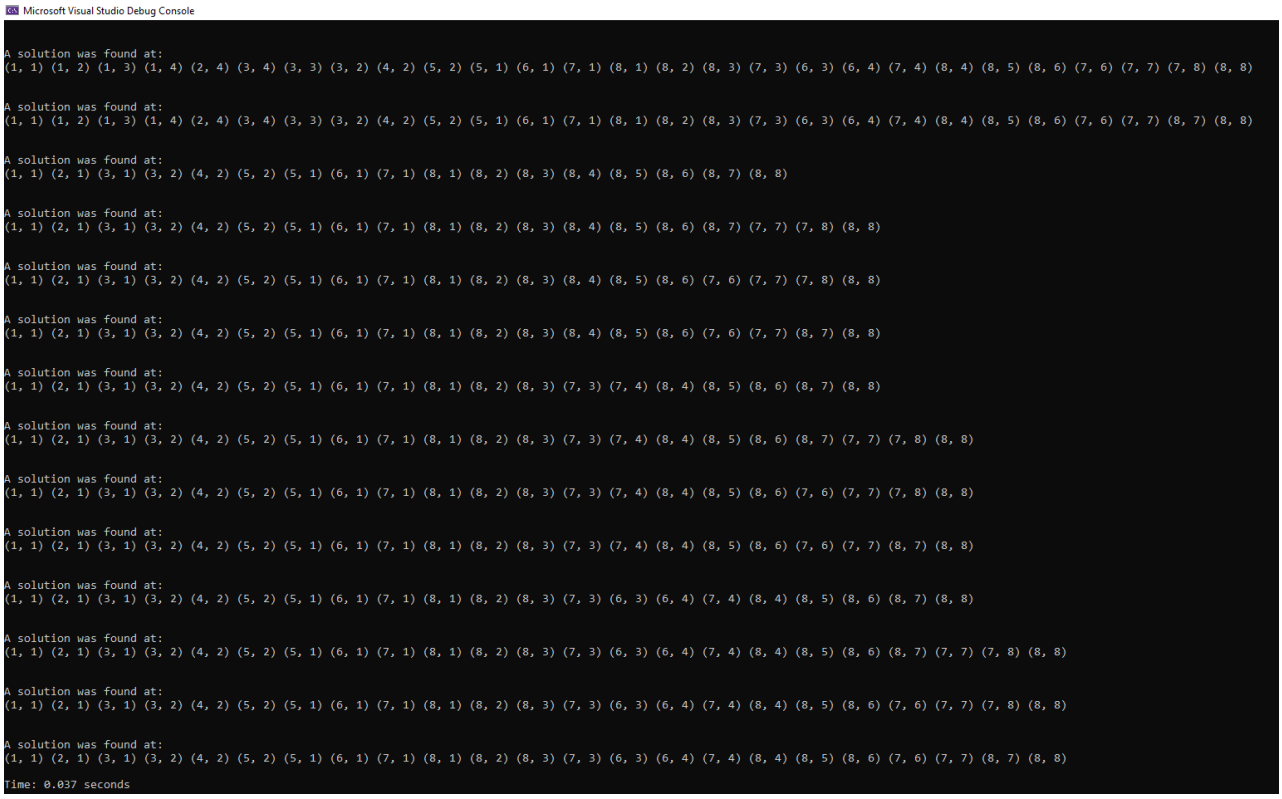
```
1,0,0,1,0,0,1,1,1,1,
1,0,1,0,0,1,0,1,0,1,
1,0,1,0,0,1,0,0,0,1,
1,0,0,0,0,0,0,0,0,1,
1,1,1,1,1,1,1,1,1,1
};


// FUNCTION PROTOTYPES
void build(int);
void printSolution(int); int is_safe(int);
int getNextCell(int);


int main(void)
{
	// set starting position and direction
	sol[0].row = 1;
	sol[0].col = 1;
	sol[0].dir = 0;

	clock_t start = clock();

	build(0);
	clock_t end = clock();


	cout << "Time: " << (end - start) / (double)CLOCKS_PER_SEC << " seconds" <<
endl;
}

void build(int n)
{

	while (getNextCell(n)) {

#ifdef DEBUG
	printf("Iteration: %d\tAt: (%d, %d)\t Trying: (%d, %d)\n", n, sol[n].row,
sol[n].col, sol[n + 1].row, sol[n + 1].col);
#endif

	if (is_safe(n)) {


	if (sol[n + 1].row == SIZE - 2 && sol[n + 1].col == SIZE - 2)
		// print the solution so far
		printSolution(n + 1);
	else

		build(n + 1);
}

}
}


/*
Outputs the current solution array.
*/
void printSolution(int n)
{
	int i;
```

```
	printf("\nA solution was found at:\n"); for (i = 0; i <= n; i++)
		printf("(%d, %d) ", sol[i].row, sol[i].col); printf("\n\n");
}


int getNextCell(int n)
{
	// set initial position and direction for the next cell
	sol[n + 1].row = sol[n].row;
	sol[n + 1].col = sol[n].col; sol[n + 1].dir = 0;


	switch (sol[n].dir) {
case 0: sol[n].dir = 'e';
	sol[n + 1].col++;

return 1; case 'e':
	sol[n].dir = 's'; sol[n + 1].row++; return 1;
case 's':
	sol[n].dir = 'w';
	sol[n + 1].col--; return 1;
case 'w':
	sol[n].dir = 'n';
	sol[n + 1].row--; return 1;
case 'n':
	return 0;
}
return 0;
}


int is_safe(int n)
{
	int i;


	// check if cell is a border cell
	if (maze[sol[n + 1].row][sol[n + 1].col]) return 0;


	for (i = 0; i < n; i++)

	if (sol[n + 1].row == sol[i].row && sol[n + 1].col == sol[i].col)

		return 0;


	return 1;
}
```

Output:

```
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)


A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8)


A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)


A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (8, 7) (8, 8)


A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)


A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8)


A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)


A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (8, 7) (8, 8)


A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)


A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8)


A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)


A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (8, 7) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (8, 7) (8, 8)
```

```
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (7, 6) (8, 6) (8, 7) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (8, 7) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (7, 6) (8, 6) (8, 7) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (8, 7) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (8, 7) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (7, 6) (8, 6) (8, 7) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (8, 7) (8, 8)


A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (7, 6) (8, 6) (8, 7) (8, 8)

Time: 0.177 seconds

C:\Users\roman\source\repos\MAZE\x64\Debug\MAZE.exe (process 12048) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```


Microsoft Visual Studio Debug Console
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)
A solution was found at:
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A solution was found at:
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A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 7) (7, 8) (8, 8)
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A solution was found at:
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A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
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(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
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A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (8, 7) (8, 8)
Time: 0.037 seconds

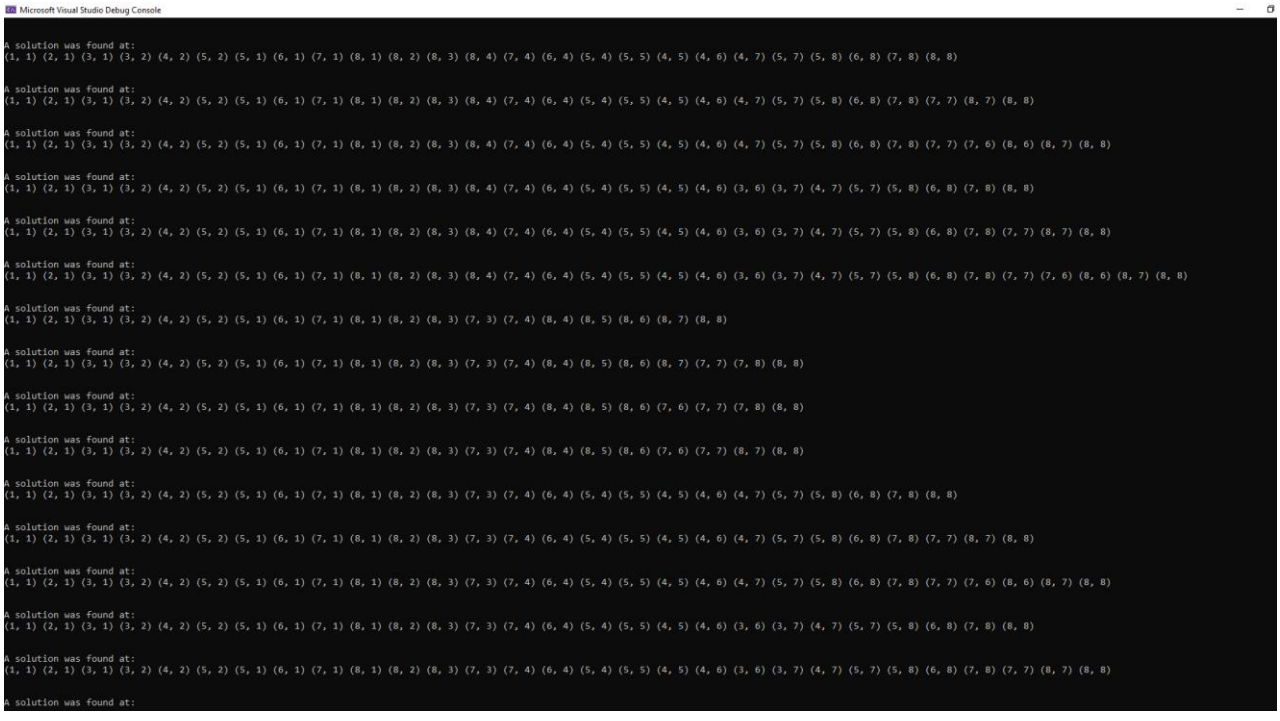
Maze 4 Source Code:

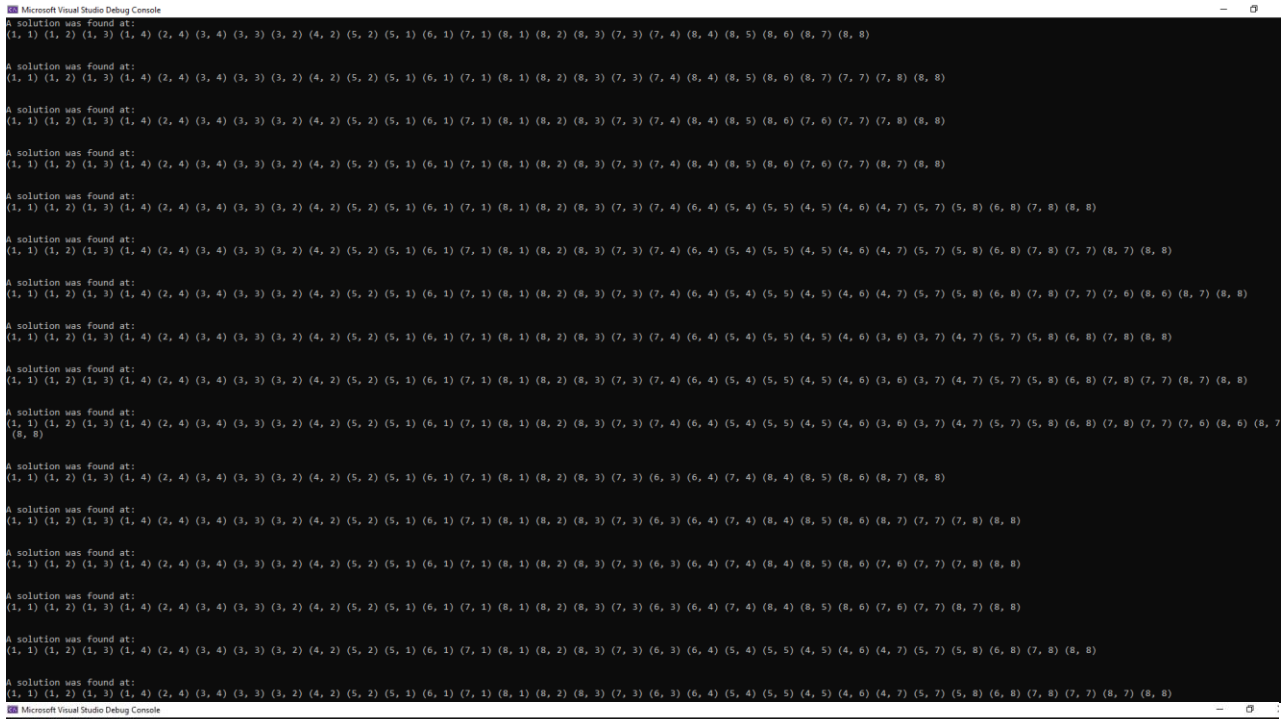
```
/*
   A recursive algorithm to determine all possible paths through a maze.


   Dan Ross
#include <iostream>
using namespace std;

#define SIZE 10
//#define DEBUG


// GLOBAL DATA



// a cell type containing a row and column position
// and the compass direction most recently moved
struct cell_type {
int row;

int col;
int dir;
};
typedef struct cell_type Cell;


// the solution represented as an array of Cells
Cell sol[SIZE * SIZE];

int maze[SIZE][SIZE] = { 1,1,1,1,1,1,1,1,1,1,
1,0,0,0,0,1,1,0,0,1,
1,0,1,1,0,0,1,0,1,1,
1,0,0,0,0,1,0,0,0,1,
1,1,0,1,1,0,0,0,1,1,
1,0,0,1,0,0,1,0,0,1,
1,0,1,0,0,1,0,1,0,1,
1,0,1,0,0,1,0,0,0,1,
1,0,0,0,0,0,0,0,0,1,
1,1,1,1,1,1,1,1,1,1
};


// FUNCTION PROTOTYPES
void build(int);
void printSolution(int); int is_safe(int);
int getNextCell(int);


int main(void)
{
```

```
	// set starting position and direction
	sol[0].row = 1;
	sol[0].col = 1;
	sol[0].dir = 0;

	clock_t start = clock();
	// start recursive solution
	build(0);
	clock_t end = clock();


	cout << "Time: " << (end - start) / (double)CLOCKS_PER_SEC << " seconds" <<
endl;
}


void build(int n)
{
	// loop while there are more possible moves
	while (getNextCell(n)) {

#ifdef DEBUG
	printf("Iteration: %d\tAt: (%d, %d)\t Trying: (%d, %d)\n", n, sol[n].row,
sol[n].col, sol[n + 1].row, sol[n + 1].col);
#endif
	// check if this possibility is a valid move
	if (is_safe(n)) {

	// is the next possibility the end of the maze?
	if (sol[n + 1].row == SIZE - 2 && sol[n + 1].col == SIZE - 2)
		// print the solution so far
		printSolution(n + 1);
	else
		// get the next move
	build(n + 1);
}

}
}


/*
Outputs the current solution array.
*/
void printSolution(int n)
{
	int i;


	printf("\nA solution was found at:\n"); for (i = 0; i <= n; i++)
		printf("(%d, %d) ", sol[i].row, sol[i].col); printf("\n\n");
}


int getNextCell(int n)
{
	// set initial position and direction for the next cell
	sol[n + 1].row = sol[n].row;
	sol[n + 1].col = sol[n].col;
	sol[n + 1].dir = 0;
```

```
	switch (sol[n].dir) {
case 0: sol[n].dir = 'e';
	sol[n + 1].col++;

return 1; case 'e':
	sol[n].dir = 's'; sol[n + 1].row++; return 1;
case 's':
	sol[n].dir = 'w';
	sol[n + 1].col--; return 1;
case 'w':
	sol[n].dir = 'n';
	sol[n + 1].row--; return 1;
case 'n':
	return 0;    // all directions have been tried
}
return 0;    // make compiler happy
}

int is_safe(int n)
{
	int i;


	// check if cell is a border cell
	if (maze[sol[n + 1].row][sol[n + 1].col]) return 0;
	// check if we are attempting to cross our own path
	for (i = 0; i < n; i++)

	if (sol[n + 1].row == sol[i].row && sol[n + 1].col == sol[i].col) return 0;

	return 1;
}
```

Output:




Microsoft Visual Studio Debug Console
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
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Microsoft Visual Studio Debug Console
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (7, 6) (8, 6) (8, 7) (8, 8)
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(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (7, 6) (8, 6) (8, 7) (8, 8)
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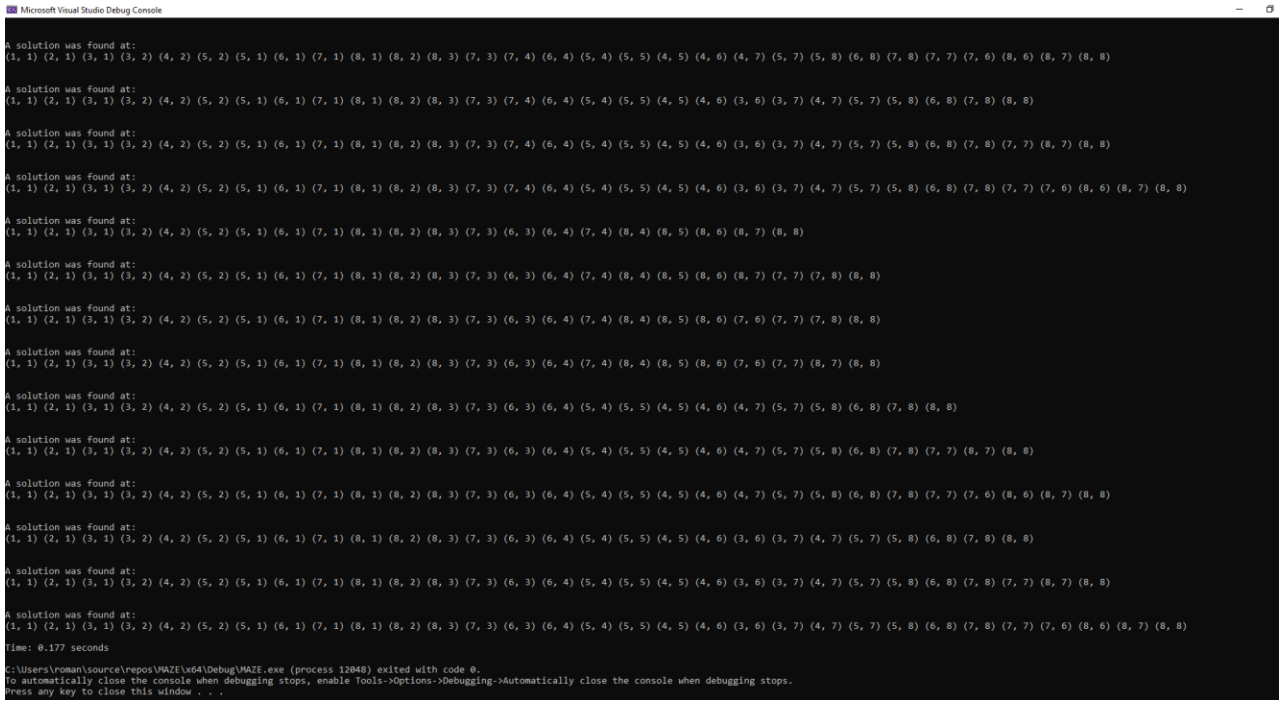
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:


Microsoft Visual Studio Debug Console
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (7, 6) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (8, 7) (8, 8)
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Time: 0.177 seconds
C:\Users\roman\source\repos\MAZE\x64\Debug\MAZE.exe (process 12048) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .

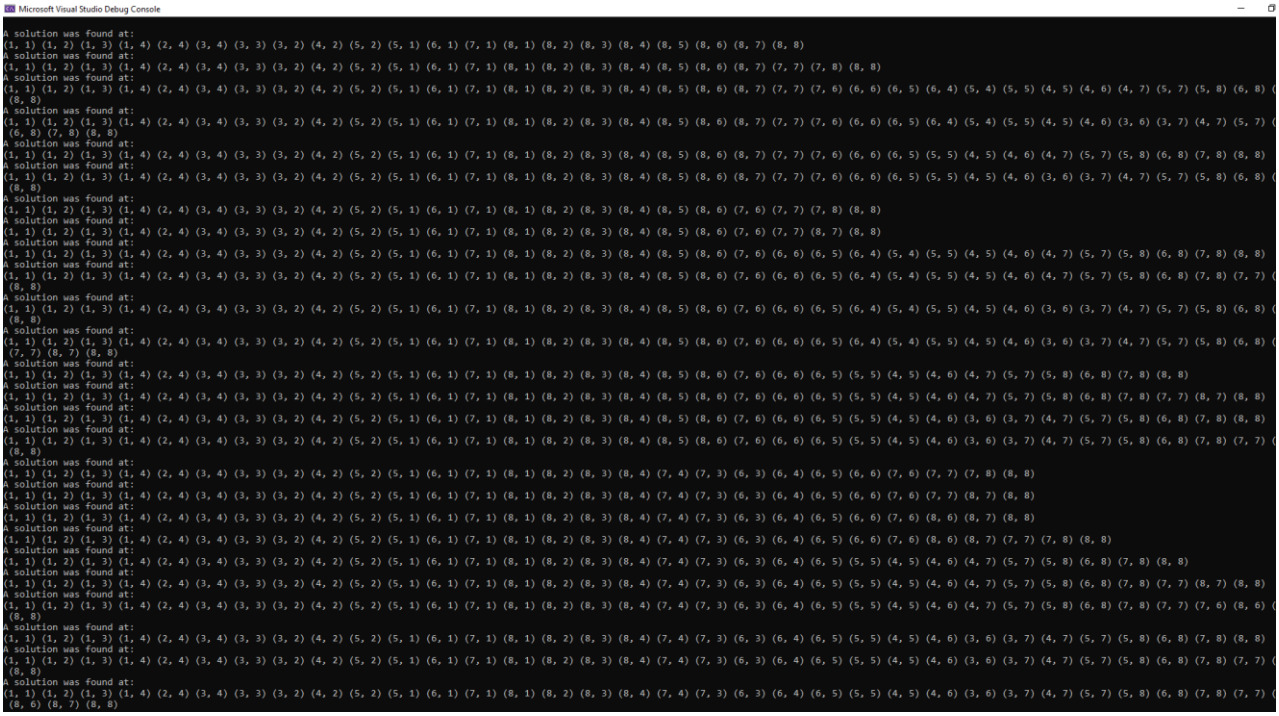
Maze 5 Source Code:

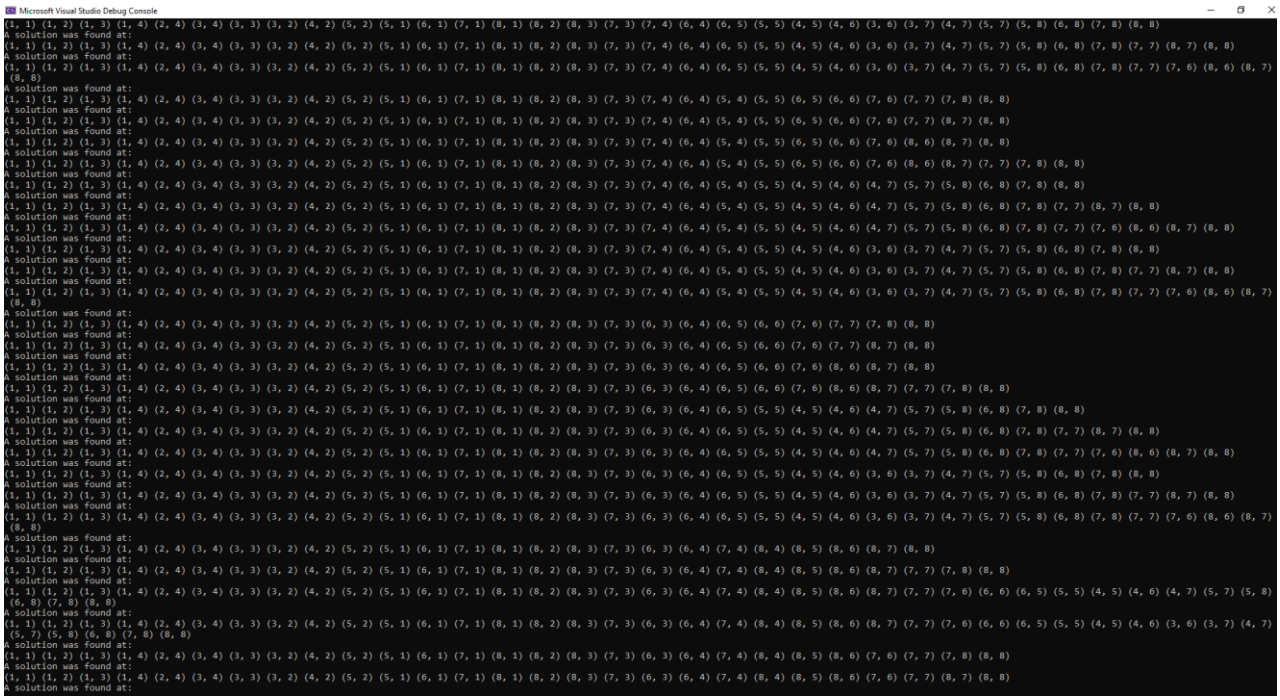
```
/*

   A recursive algorithm to determine all possible paths through a maze.


   Dan Ross
#include <iostream>
using namespace std;

#define SIZE 10
//#define DEBUG


// GLOBAL DATA




struct cell_type {
int row; int col;
int dir;
};
typedef struct cell_type Cell;


// the solution represented as an array of Cells
Cell sol[SIZE * SIZE];

// the maze
int maze[SIZE][SIZE] = { 1,1,1,1,1,1,1,1,1,1,
1,0,0,0,0,1,1,0,0,1,
1,0,1,1,0,0,1,0,1,1,
1,0,0,0,0,1,0,0,0,1,
1,1,0,1,1,0,0,0,1,1,
1,0,0,1,0,0,1,0,0,1,

1,0,1,0,0,0,0,1,0,1,
1,0,1,0,0,1,0,0,0,1,
1,0,0,0,0,0,0,0,0,1,
1,1,1,1,1,1,1,1,1,1
};


// FUNCTION PROTOTYPES
void build(int);
void printSolution(int); int is_safe(int);
int getNextCell(int);


int main(void)
{
       // set starting position and direction
       sol[0].row = 1;
       sol[0].col = 1;
       sol[0].dir = 0;


       clock_t start = clock();
       // start recursive solution
       build(0);
       clock_t end = clock();
```

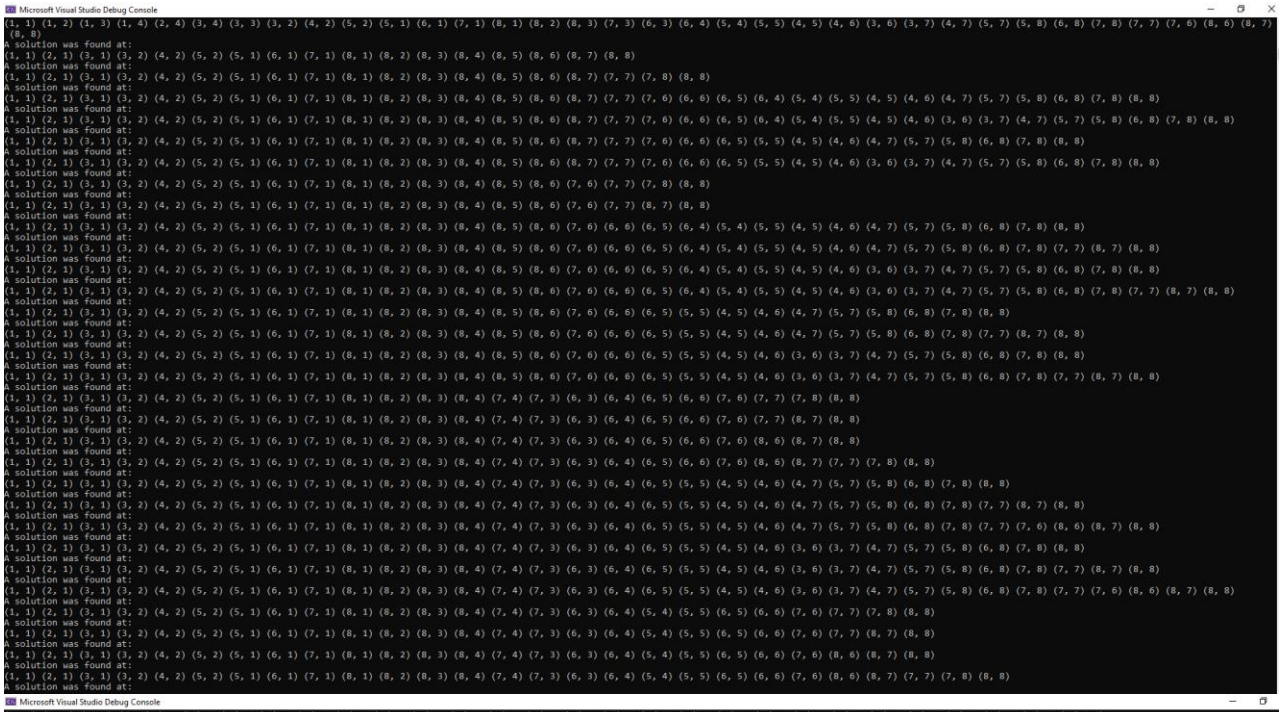
```
	cout << "Time: " << (end - start) / (double)CLOCKS_PER_SEC << " seconds" <<
endl;
}



void build(int n)

{
	// loop while there are more possible moves
	while (getNextCell(n)) {

#ifdef DEBUG
	printf("Iteration: %d\tAt: (%d, %d)\t Trying: (%d, %d)\n", n, sol[n].row,
sol[n].col, sol[n + 1].row, sol[n + 1].col);
#endif
	// check if this possibility is a valid move
	if (is_safe(n)) {

	// is the next possibility the end of the maze?
	if (sol[n + 1].row == SIZE - 2 && sol[n + 1].col == SIZE - 2)
		// print the solution so far
		printSolution(n + 1);
	else
		// get the next move
		build(n + 1);
}
}
}


/*
Outputs the current solution array.
*/
void printSolution(int n)
{
	int i;


	printf("\nA solution was found at:\n"); for (i = 0; i <= n; i++)
		printf("(%d, %d) ", sol[i].row, sol[i].col); printf("");
}


int getNextCell(int n)
{
	// set initial position and direction for the next cell
	sol[n + 1].row = sol[n].row;
	sol[n + 1].col = sol[n].col; sol[n + 1].dir = 0;


	switch (sol[n].dir) {
case 0:
	sol[n].dir = 'e'; sol[n + 1].col++; return 1;
case 'e':
	sol[n].dir = 's'; sol[n + 1].row++; return 1;
case 's':
	sol[n].dir = 'w';
	sol[n + 1].col--; return 1;
case 'w':
	sol[n].dir = 'n';
	sol[n + 1].row--; return 1;
```

```
case 'n':
      return 0;    // all directions have been tried
}

return 0;    // make compiler happy
}



int is_safe(int n)
{
      int i;


      // check if cell is a border cell
      if (maze[sol[n + 1].row][sol[n + 1].col]) return 0;

      // check if we are attempting to cross our own path
      for (i = 0; i < n; i++)

      if (sol[n + 1].row == sol[i].row && sol[n + 1].col == sol[i].col) return 0;

      return 1;
}
```

Output:


Microsoft Visual Studio Debug Console
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)


Microsoft Visual Studio Debug Console



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A solution was found at:
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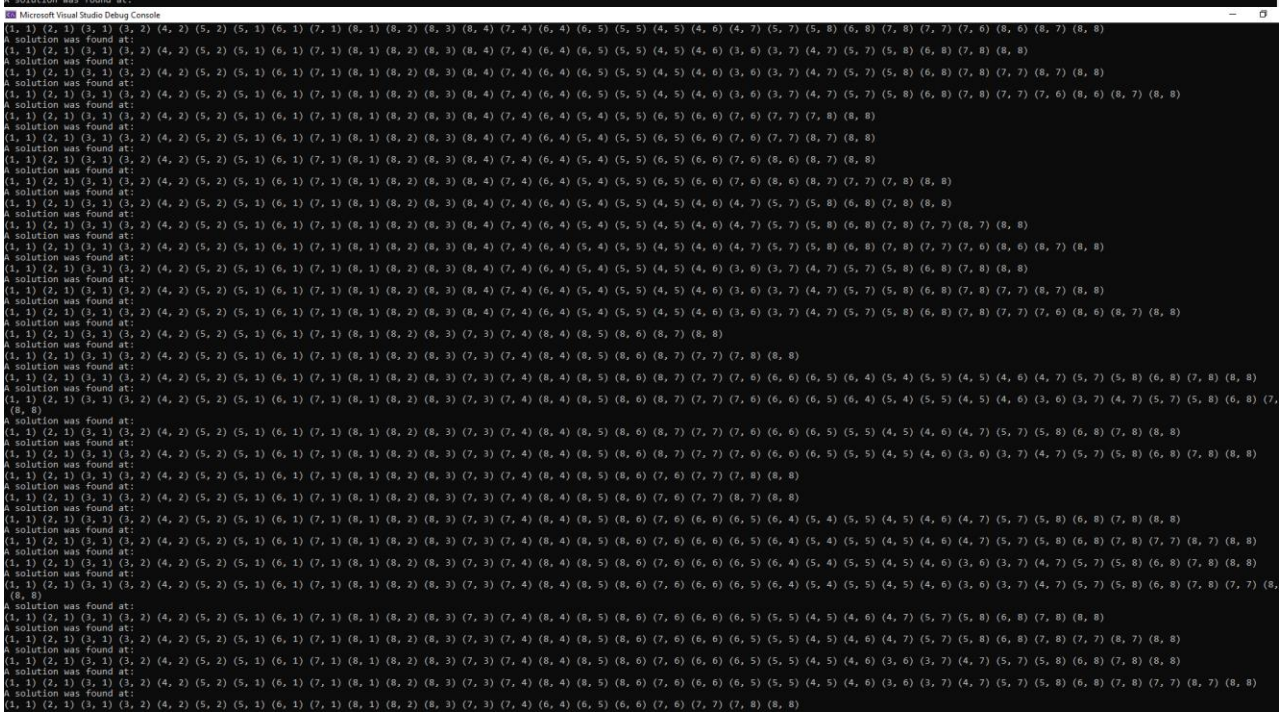

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A solution was found at:
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(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (6, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8)
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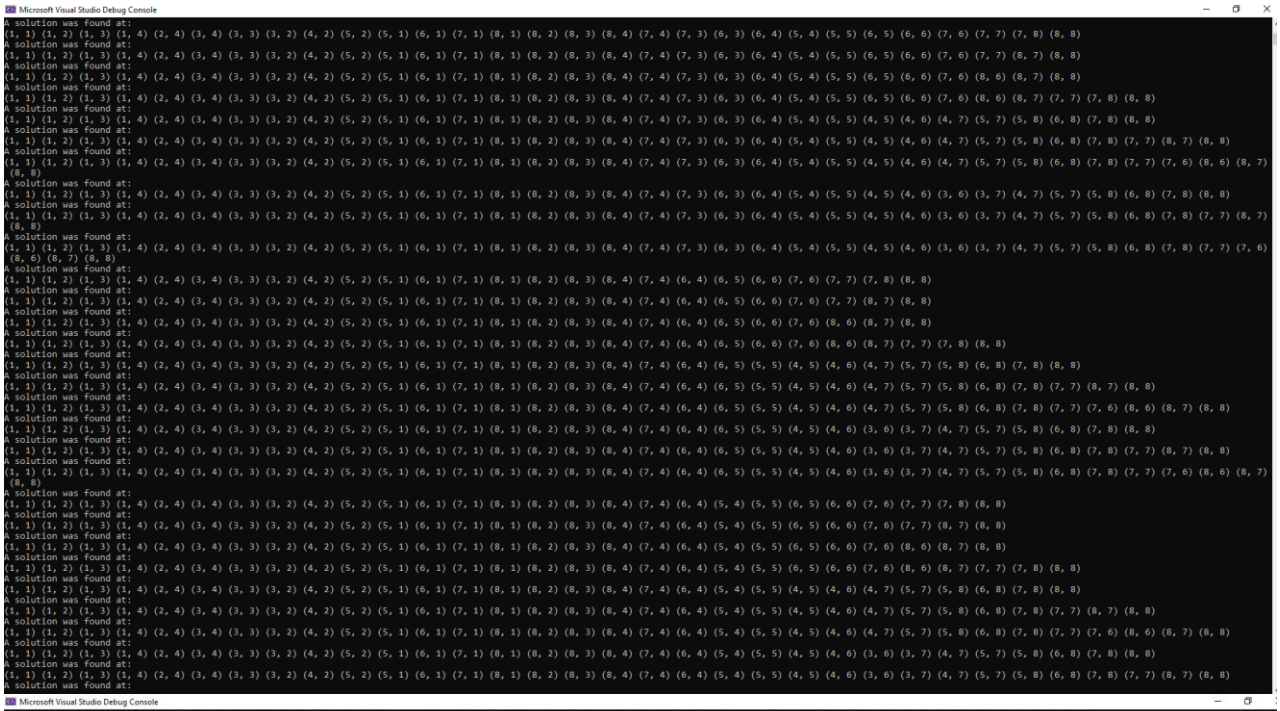

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A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (6, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8)
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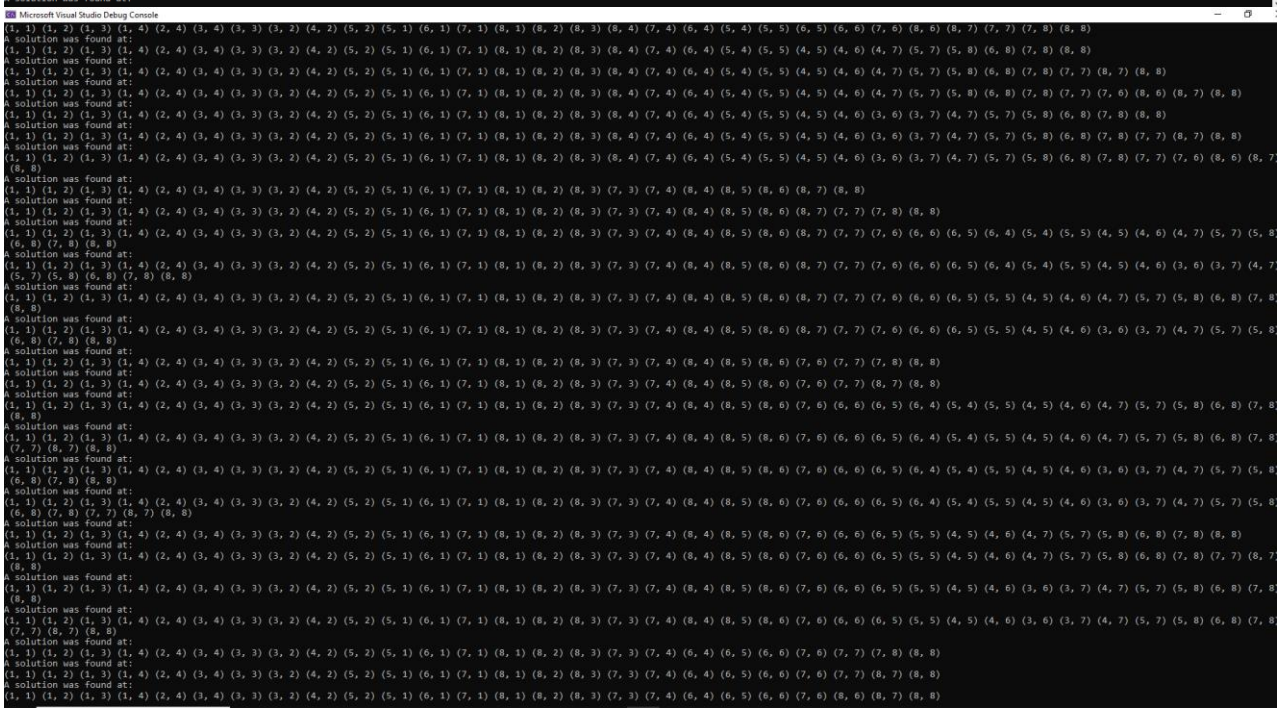

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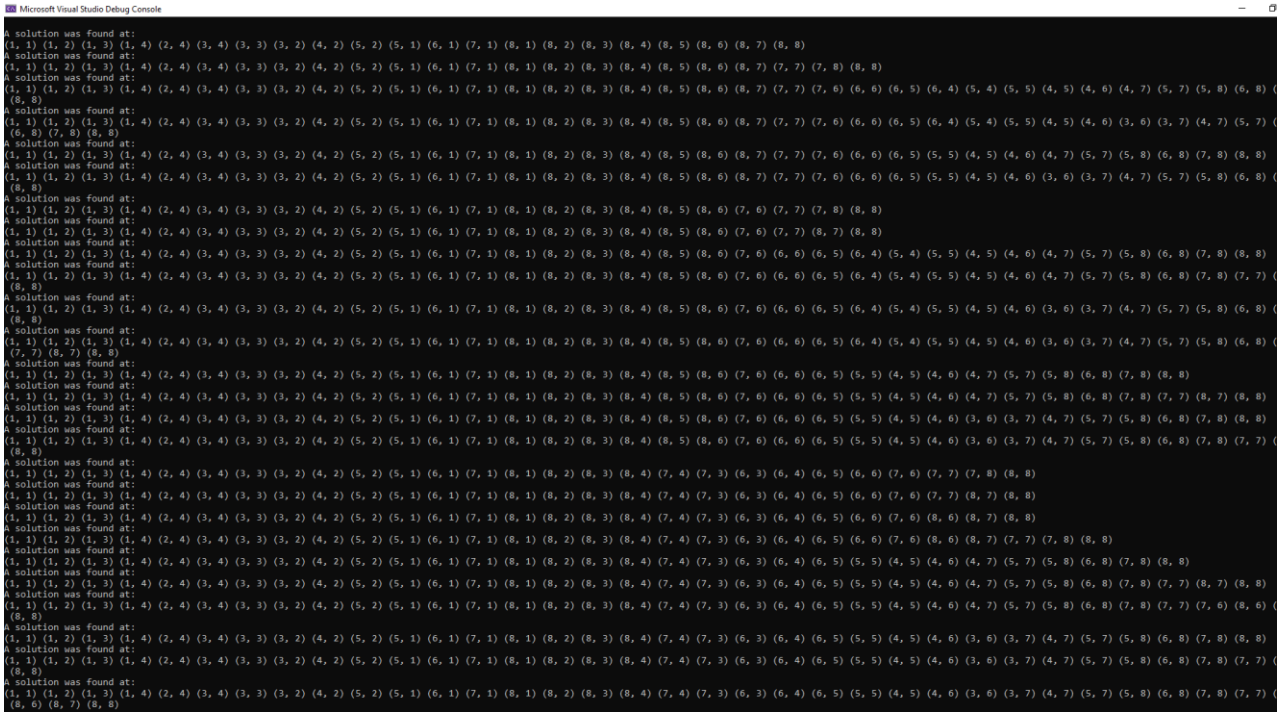
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(8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (6, 6) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (6, 6) (6, 5) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (6, 6) (6, 5) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (
(8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (6, 6) (6, 5) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (
(8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (6, 6) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (6, 6) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (6, 6) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (6, 6) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (
(8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (6, 6) (7, 6) (7, 7) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (7, 6) (8, 6) (
(8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (
(8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (
(8, 6) (8, 7) (8, 8)

Maze 6 Source Code:

d /*

A recursive algorithm to determine all possible paths through a maze.

Dan Ross, circa 2000-2020

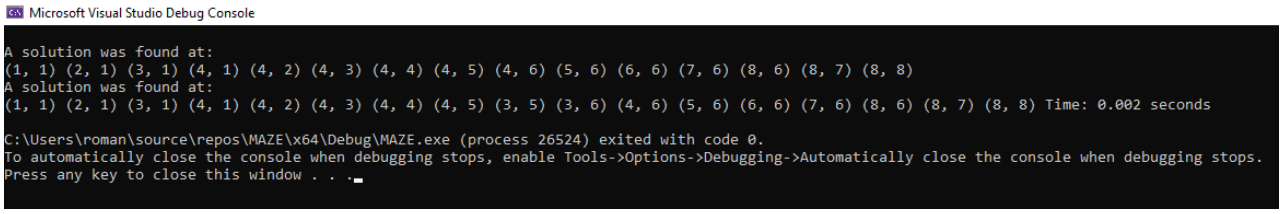
*/

```
#include <iostream>
using namespace std;

#define SIZE 10
//#define DEBUG


// GLOBAL DATA




struct cell_type {
int row; int col;
int dir;
};
typedef struct cell_type Cell;


// the solution represented as an array of Cells
Cell sol[SIZE * SIZE];

// the maze
int maze[SIZE][SIZE] = { 1,1,1,1,1,1,1,1,1,1,
1,0,1,0,0,0,1,0,0,1,
1,0,0,0,1,1,1,1,0,1,
1,0,1,1,1,0,0,1,0,1,
1,0,0,0,0,0,0,1,0,1,

1,1,1,1,0,1,0,1,0,1,
1,0,0,1,1,1,0,1,0,1,
1,0,1,0,0,0,0,1,0,1,
1,0,1,0,1,1,0,0,0,1,
1,1,1,1,1,1,1,1,1,1
};


// FUNCTION PROTOTYPES
void build(int);
void printSolution(int); int is_safe(int);
int getNextCell(int);


int main(void)
{
	// set starting position and direction
	sol[0].row = 1;
	sol[0].col = 1;
	sol[0].dir = 0;


	clock_t start = clock();
	// start recursive solution
```

```
	build(0);
	clock_t end = clock();


	cout << "Time: " << (end - start) / (double)CLOCKS_PER_SEC << " seconds" <<
endl;
}




void build(int n)
{
	// loop while there are more possible moves
	while (getNextCell(n)) {

#ifdef DEBUG
	printf("Iteration: %d\tAt: (%d, %d)\t Trying: (%d, %d)\n", n, sol[n].row,
sol[n].col, sol[n + 1].row, sol[n + 1].col);
#endif
	// check if this possibility is a valid move
	if (is_safe(n)) {


	if (sol[n + 1].row == SIZE - 2 && sol[n + 1].col == SIZE - 2)
		// print the solution so far
		printSolution(n + 1);
	else
		// get the next move
		build(n + 1);
}
}
}


/*
Outputs the current solution array.
*/
void printSolution(int n)
{
	int i;


	printf("\nA solution was found at:\n"); for (i = 0; i <= n; i++)
		printf("(%d, %d) ", sol[i].row, sol[i].col); printf("");
}


int getNextCell(int n)
{
	// set initial position and direction for the next cell
	sol[n + 1].row = sol[n].row;
	sol[n + 1].col = sol[n].col; sol[n + 1].dir = 0;


	switch (sol[n].dir) {
case 0:
	sol[n].dir = 'e'; sol[n + 1].col++; return 1;
case 'e':
	sol[n].dir = 's'; sol[n + 1].row++; return 1;
case 's':
	sol[n].dir = 'w';
	sol[n + 1].col--; return 1;
case 'w':
```

```
        sol[n].dir = 'n';
        sol[n + 1].row--; return 1;
case 'n':
        return 0;    // all directions have been tried

}
return 0;    // make compiler happy
}



int is_safe(int n)
{
        int i;


        // check if cell is a border cell
        if (maze[sol[n + 1].row][sol[n + 1].col]) return 0;

        // check if we are attempting to cross our own path
        for (i = 0; i < n; i++)

        if (sol[n + 1].row == sol[i].row && sol[n + 1].col == sol[i].col) return 0;

        return 1;
```

}Output:



Make 7 Source Code:

```
/*
```

A recursive algorithm to determine all possible paths through a maze.

Dan Ross

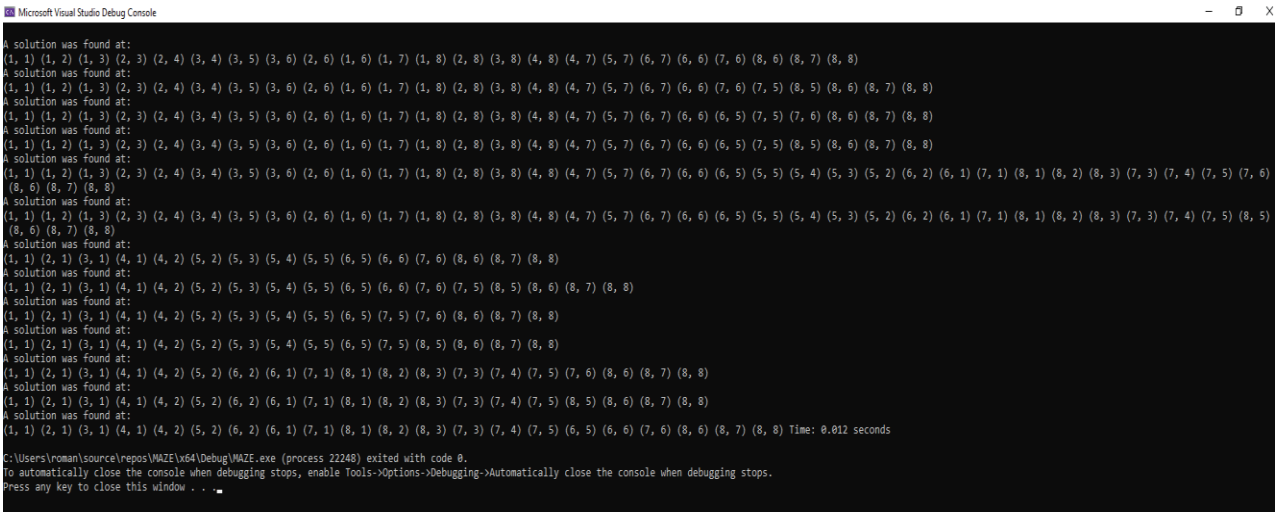
*/

```
#include <iostream>
using namespace std;

#define SIZE 10
//#define DEBUG


// GLOBAL DATA



// a cell type containing a row and column position
// and the compass direction most recently moved
struct cell_type {
int row; int col;
int dir;
};
typedef struct cell_type Cell;


// the solution represented as an array of Cells
Cell sol[SIZE * SIZE];

// the maze
int maze[SIZE][SIZE] = { 1,1,1,1,1,1,1,1,1,1,
1,0,0,0,1,1,0,0,0,1,
1,0,1,0,0,1,0,1,0,1,
1,0,1,1,0,0,0,1,0,1,
1,0,0,1,1,1,1,0,0,1,
1,1,0,0,0,0,1,0,1,1,
1,0,0,1,1,0,0,0,0,1,
1,0,1,0,0,0,0,1,1,1,

1,0,0,0,1,0,0,0,0,1,
1,1,1,1,1,1,1,1,1,1
};


// FUNCTION PROTOTYPES
void build(int);
void printSolution(int); int is_safe(int);
int getNextCell(int);


int main(void)
{
	// set starting position and direction
	sol[0].row = 1;
	sol[0].col = 1;
	sol[0].dir = 0;


	clock_t start = clock();
	// start recursive solution
	build(0);
```

```
	clock_t end = clock();


	cout << "Time: " << (end - start) / (double)CLOCKS_PER_SEC << " seconds" <<
endl;
}



void build(int n)
{
	// loop while there are more possible moves

	while (getNextCell(n)) {


#ifdef DEBUG
		printf("Iteration: %d\tAt: (%d, %d)\t Trying: (%d, %d)\n", n,
sol[n].row, sol[n].col, sol[n + 1].row, sol[n + 1].col);
#endif
		// check if this possibility is a valid move
		if (is_safe(n)) {

		// is the next possibility the end of the maze?
		if (sol[n + 1].row == SIZE - 2 && sol[n + 1].col == SIZE - 2)
			// print the solution so far
			printSolution(n + 1);
		else
			// get the next move
			build(n + 1);
	}
}
}


/*
Outputs the current solution array.
*/
void printSolution(int n)
{
	int i;


	printf("\nA solution was found at:\n"); for (i = 0; i <= n; i++)
		printf("(%d, %d) ", sol[i].row, sol[i].col); printf("");
}



int getNextCell(int n)
{
	// set initial position and direction for the next cell
	sol[n + 1].row = sol[n].row;
	sol[n + 1].col = sol[n].col; sol[n + 1].dir = 0;


	switch (sol[n].dir) {
case 0:
	sol[n].dir = 'e'; sol[n + 1].col++; return 1;
case 'e':
	sol[n].dir = 's'; sol[n + 1].row++; return 1;
case 's':
```

```
        sol[n].dir = 'w';
        sol[n + 1].col--; return 1;
case 'w':
        sol[n].dir = 'n';
        sol[n + 1].row--; return 1;
case 'n':
        return 0;    // all directions have been tried
}
return 0;    // make compiler happy
}


int is_safe(int n)
{
        int i;


        // check if cell is a border cell
        if (maze[sol[n + 1].row][sol[n + 1].col]) return 0;

        // check if we are attempting to cross our own path
        for (i = 0; i < n; i++)
        // if where we want to go is somewhere we've been...
        if (sol[n + 1].row == sol[i].row && sol[n + 1].col == sol[i].col) return 0;

        return 1;
}
```

Output:



Maze 8 Source Code:

/*

A recursive algorithm to determine all possible paths through a maze.

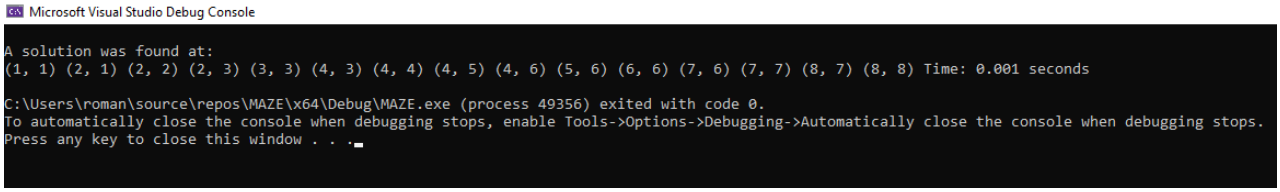
Dan Ross

```
#include <iostream>
using namespace std;

#define SIZE 10
//#define DEBUG


// GLOBAL DATA




struct cell_type {
int row; int col;
int dir;
};
typedef struct cell_type Cell;


// the solution represented as an array of Cells
Cell sol[SIZE * SIZE];


int maze[SIZE][SIZE] = { 1,1,1,1,1,1,1,1,1,1,
1,0,1,0,1,0,1,0,1,1,
1,0,0,0,0,0,0,1,0,1,
1,0,1,0,1,1,1,0,1,1,
1,0,1,0,0,0,0,1,0,1,
1,1,0,1,1,1,1,0,0,1,1,
1,0,0,0,0,1,0,1,0,1,
1,0,1,0,1,0,0,0,1,1,
1,0,1,1,0,0,1,0,0,1,
1,1,1,1,1,1,1,1,1,1
};

// FUNCTION PROTOTYPES
void build(int);
void printSolution(int); int is_safe(int);
int getNextCell(int);


int main(void)
{
	// set starting position and direction
	sol[0].row = 1;
	sol[0].col = 1;
	sol[0].dir = 0;


	clock_t start = clock();
	// start recursive solution
	build(0);
	clock_t end = clock();


	cout << "Time: " << (end - start) / (double)CLOCKS_PER_SEC << " seconds" <<
endl;
}



void build(int n)
{
```

```
	// loop while there are more possible moves
	while (getNextCell(n)) {

#ifdef DEBUG

	printf("Iteration: %d\tAt: (%d, %d)\t Trying: (%d, %d)\n", n, sol[n].row,
sol[n].col, sol[n + 1].row, sol[n + 1].col);
#endif
	// check if this possibility is a valid move
	if (is_safe(n)) {

	// is the next possibility the end of the maze?
	if (sol[n + 1].row == SIZE - 2 && sol[n + 1].col == SIZE - 2)
		// print the solution so far
		printSolution(n + 1);
	else
		// get the next move
		build(n + 1);
}
}
}


/*
Outputs the current solution array.
*/
void printSolution(int n)
{
	int i;


	printf("\nA solution was found at:\n"); for (i = 0; i <= n; i++)
		printf("(%d, %d) ", sol[i].row, sol[i].col); printf("");
}




int getNextCell(int n)
{
	// set initial position and direction for the next cell
	sol[n + 1].row = sol[n].row;
	sol[n + 1].col = sol[n].col; sol[n + 1].dir = 0;


	switch (sol[n].dir) {
case 0:
	sol[n].dir = 'e'; sol[n + 1].col++; return 1;
case 'e':
	sol[n].dir = 's'; sol[n + 1].row++; return 1;
case 's':
	sol[n].dir = 'w';
	sol[n + 1].col--; return 1;
case 'w':
	sol[n].dir = 'n';
	sol[n + 1].row--; return 1;
case 'n':
	return 0;    // all directions have been tried
}
return 0;    // make compiler happy
}
```

```
int is_safe(int n)
{
	int i;


	// check if cell is a border cell
	if (maze[sol[n + 1].row][sol[n + 1].col]) return 0;

	// check if we are attempting to cross our own path
	for (i = 0; i < n; i++)

	if (sol[n + 1].row == sol[i].row && sol[n + 1].col == sol[i].col) return 0;

	return 1;
}
```

Output:



Maze 9 Source Code:

```
/*

	A recursive algorithm to determine all possible paths through a maze.


	Dan Ross
```

```
 */
#include <iostream>
using namespace std;

#define SIZE 10
//#define DEBUG


// GLOBAL DATA




struct cell_type {
int row; int col;
int dir;
};
typedef struct cell_type Cell;


// the solution represented as an array of Cells
Cell sol[SIZE * SIZE];


int maze[SIZE][SIZE] = { 1,1,1,1,1,1,1,1,1,1,
1,0,0,1,1,0,0,0,0,1,
1,0,1,1,0,0,1,1,0,1,
1,0,0,0,0,1,0,0,0,1,
1,0,0,1,0,0,1,1,0,1,
1,0,1,1,0,1,0,1,0,1,
1,0,0,0,0,1,0,0,0,1,
1,0,1,0,0,1,1,1,0,1,
1,0,0,0,0,0,0,1,0,1,
1,1,1,1,1,1,1,1,1,1
};

// FUNCTION PROTOTYPES
void build(int);
void printSolution(int); int is_safe(int);
int getNextCell(int);


int main(void)
{
	// set starting position and direction
	sol[0].row = 1;
	sol[0].col = 1;
	sol[0].dir = 0;


	clock_t start = clock();
	// start recursive solution
	build(0);
	clock_t end = clock();


	cout << "Time: " << (end - start) / (double)CLOCKS_PER_SEC << " seconds" <<
endl;
}



void build(int n)
```

```
{
	// loop while there are more possible moves
	while (getNextCell(n)) {

#ifdef DEBUG

	printf("Iteration: %d\tAt: (%d, %d)\t Trying: (%d, %d)\n", n, sol[n].row,
sol[n].col, sol[n + 1].row, sol[n + 1].col);
#endif
	// check if this possibility is a valid move
	if (is_safe(n)) {

	// is the next possibility the end of the maze?
	if (sol[n + 1].row == SIZE - 2 && sol[n + 1].col == SIZE - 2)
		// print the solution so far
		printSolution(n + 1);
	else
		// get the next move
		build(n + 1);
}
}
}


/*
Outputs the current solution array.
*/
void printSolution(int n)
{
	int i;


	printf("\nA solution was found at:\n"); for (i = 0; i <= n; i++)
		printf("(%d, %d) ", sol[i].row, sol[i].col); printf("");
}




int getNextCell(int n)
{
	// set initial position and direction for the next cell
	sol[n + 1].row = sol[n].row;
	sol[n + 1].col = sol[n].col; sol[n + 1].dir = 0;


	switch (sol[n].dir) {
case 0:
	sol[n].dir = 'e'; sol[n + 1].col++; return 1;
case 'e':
	sol[n].dir = 's'; sol[n + 1].row++; return 1;
case 's':
	sol[n].dir = 'w';
	sol[n + 1].col--; return 1;
case 'w':
	sol[n].dir = 'n';
	sol[n + 1].row--; return 1;
case 'n':
	return 0;    // all directions have been tried
}
return 0;    // make compiler happy
}
```

```
int is_safe(int n)
{
	int i;


	// check if cell is a border cell
	if (maze[sol[n + 1].row][sol[n + 1].col]) return 0;

	// check if we are attempting to cross our own path
	for (i = 0; i < n; i++)
	// if where we want to go is somewhere we've been...
	if (sol[n + 1].row == sol[i].row && sol[n + 1].col == sol[i].col) return 0;

	return 1;
}
```

Output:

Maze 10 Source Code:

/*

A recursive algorithm to determine all possible paths through a maze.

Dan Ross,

*/

```
#include <iostream>
using namespace std;

#define SIZE 10

//#define DEBUG


// GLOBAL DATA




struct cell_type {
int row; int col;
int dir;
};
typedef struct cell_type Cell;


// the solution represented as an array of Cells
Cell sol[SIZE * SIZE];

// the maze
int maze[SIZE][SIZE] = {
1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
1, 0, 0, 1, 0, 1, 0, 0, 0, 1,
1, 0, 1, 0, 0, 0, 1, 1, 0, 1,
1, 0, 0, 0, 1, 0, 0, 0, 0, 1,
1, 1, 0, 1, 0, 0, 0, 1, 0, 1,
1, 0, 0, 1, 0, 1, 0, 1, 1, 1,
1, 0, 1, 0, 0, 0, 0, 0, 0, 1,
1, 0, 0, 0, 1, 0, 1, 1, 0, 1,
```

```
1, 0, 1, 0, 0, 0, 0, 0, 0, 1,
1, 1, 1, 1, 1, 1, 1, 1, 1, 1
};


// FUNCTION PROTOTYPES
void build(int);
void printSolution(int); int is_safe(int);

int getNextCell(int);


int main(void)
{
	// set starting position and direction
	sol[0].row = 1;
	sol[0].col = 1;
	sol[0].dir = 0;


	clock_t start = clock();
	// start recursive solution
	build(0);
	clock_t end = clock();


	cout << "Time: " << (end - start) / (double)CLOCKS_PER_SEC << " seconds" <<
endl;
}



void build(int n)
{
	// loop while there are more possible moves
	while (getNextCell(n)) {

#ifdef DEBUG
	printf("Iteration: %d\tAt: (%d, %d)\t Trying: (%d, %d)\n", n, sol[n].row,
sol[n].col, sol[n + 1].row, sol[n + 1].col);
#endif
	// check if this possibility is a valid move
	if (is_safe(n)) {

	// is the next possibility the end of the maze?
	if (sol[n + 1].row == SIZE - 2 && sol[n + 1].col == SIZE - 2)
		// print the solution so far
		printSolution(n + 1);
	else
		// get the next move
		build(n + 1);
}
}
}


/*
Outputs the current solution array.
*/
void printSolution(int n)
{
	int i;
```

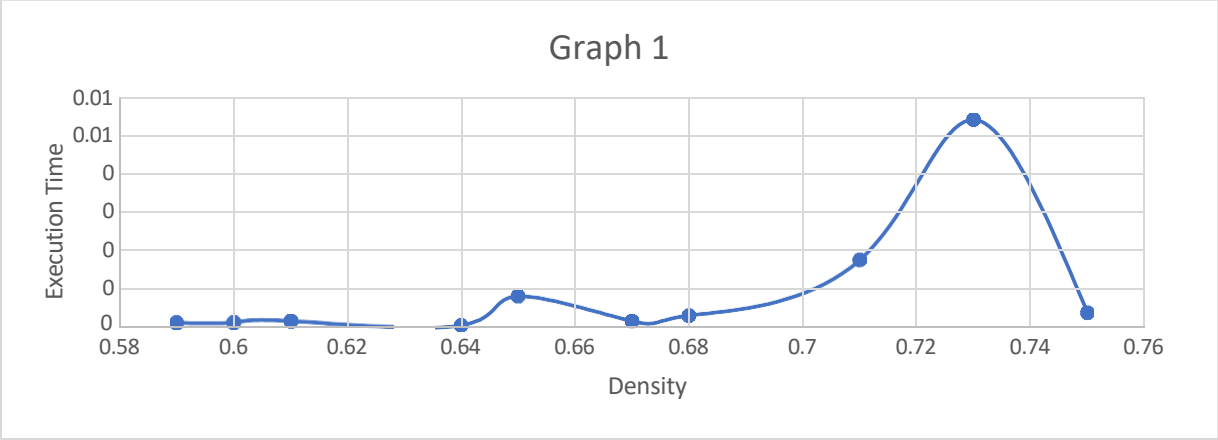
```
	printf("\nA solution was found at:\n"); for (i = 0; i <= n; i++)
		printf("(%d, %d) ", sol[i].row, sol[i].col); printf("");
}



int getNextCell(int n)
{
	// set initial position and direction for the next cell
	sol[n + 1].row = sol[n].row;
	sol[n + 1].col = sol[n].col;

	sol[n + 1].dir = 0;


	switch (sol[n].dir) {
case 0:
	sol[n].dir = 'e'; sol[n + 1].col++; return 1;
case 'e':
	sol[n].dir = 's'; sol[n + 1].row++; return 1;
case 's':
	sol[n].dir = 'w';
	sol[n + 1].col--; return 1;
case 'w':
	sol[n].dir = 'n';
	sol[n + 1].row--; return 1;
case 'n':
	return 0;    // all directions have been tried
}
return 0;    // make compiler happy
}



int is_safe(int n)
{
	int i;

	// check if cell is a border cell
	if (maze[sol[n + 1].row][sol[n + 1].col]) return 0;

	// check if we are attempting to cross our own path
	for (i = 0; i < n; i++)

	if (sol[n + 1].row == sol[i].row && sol[n + 1].col == sol[i].col) return 0;

	return 1;
}
```

Output:

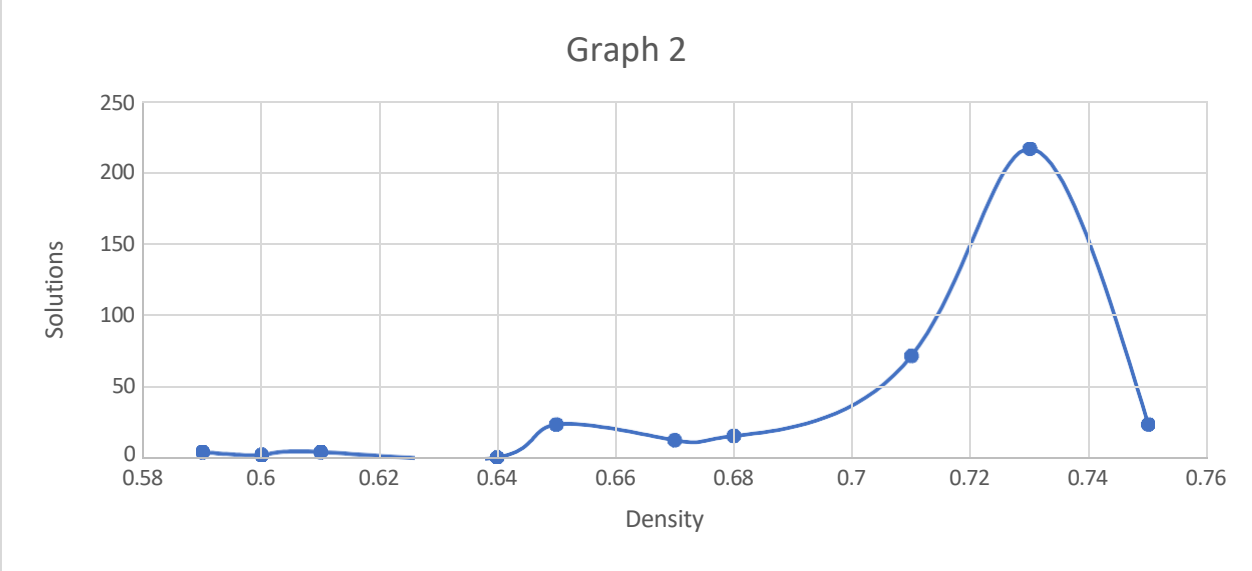
Microsoft Visual Studio Debug Console

```
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 5) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (4, 5) (4, 4) (5, 4) (6, 4) (6, 5) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (4, 5) (4, 4) (5, 4) (6, 4) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (4, 5) (4, 4) (5, 4) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (4, 5) (4, 4) (5, 4) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (7, 5) (6, 5) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 5) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 6) (5, 6) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 6) (5, 6) (6, 6) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 6) (5, 6) (6, 6) (6, 5) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 4) (5, 4) (6, 4) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (4, 5) (4, 4) (5, 4) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 4) (5, 4) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (7, 5) (6, 5) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (8, 3) (8, 4) (8, 5) (7, 5) (6, 5) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (8, 3) (8, 4) (8, 5) (7, 5) (6, 5) (6, 4) (5, 4) (4, 4) (4, 5) (4, 6) (5, 6) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (8, 3) (8, 4) (8, 5) (7, 5) (6, 5) (6, 4) (5, 4) (4, 4) (4, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (6, 3) (6, 4) (6, 5) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (6, 3) (6, 4) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (6, 3) (6, 4) (5, 4) (4, 4) (4, 5) (4, 6) (5, 6) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (6, 3) (6, 4) (5, 4) (4, 4) (4, 5) (4, 6) (5, 6) (6, 6) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (6, 3) (6, 4) (5, 4) (4, 4) (4, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (6, 3) (6, 4) (5, 4) (4, 4) (4, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8) Time: 0.028 seconds

C:\Users\roman\source\repos\MAZE\x64\Debug\MAZE.exe (process 12492) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

Graph 1:



Graph 2:



Big Oh Analysis:

The time complexity of this maze generally increases as the openness level decreases which is because a maze with a higher openness level is more likely to have fewer dead-ends and more loops which also means that there are more possible paths to explore which would make the solution longer to find. A maze with lower openness would be more likely to have more dead-ends which would lead to less paths to explore meaning there would be less solutions, causing the time complexity to be very low.

Appendix:

Maze 1:

```
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (5, 7) (5, 6) (5, 5) (5, 4) (5, 3) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (7, 4) (7, 5) (7, 6) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (5, 2) (5, 3) (5, 4) (5, 5) (5, 6) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (7, 4) (7, 5) (7, 6) (7, 7) (7, 8) (8, 8)
```

Maze 2:

```
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (5, 7) (5, 6) (5, 5) (5, 4) (5, 3) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (7, 4) (7, 5) (7, 6) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (5, 2) (5, 3) (5, 4) (5, 5) (5, 6) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (7, 4) (7, 5) (7, 6) (7, 7) (7, 8) (8, 8)
```

Maze 3:

```
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)
A solution was found at:
```

(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (8, 7) (8, 8)
A solution was found at:
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A solution was found at:
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Maze 6:

A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (4, 2) (4, 3) (4, 4) (4, 5) (4, 6) (5, 6) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (4, 2) (4, 3) (4, 4) (4, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8)

Maze 7:

A solution was found at:
(1, 1) (1, 2) (1, 3) (2, 3) (2, 4) (3, 4) (3, 5) (3, 6) (2, 6) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (4, 7) (5, 7) (6, 7) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (2, 3) (2, 4) (3, 4) (3, 5) (3, 6) (2, 6) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (4, 7) (5, 7) (6, 7) (6, 6) (7, 6) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (2, 3) (2, 4) (3, 4) (3, 5) (3, 6) (2, 6) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (4, 7) (5, 7) (6, 7) (6, 6) (6, 5) (7, 5) (7, 6) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (2, 3) (2, 4) (3, 4) (3, 5) (3, 6) (2, 6) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (4, 7) (5, 7) (6, 7) (6, 6) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (2, 3) (2, 4) (3, 4) (3, 5) (3, 6) (2, 6) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (4, 7) (5, 7) (6, 7) (6, 6) (6, 5) (5, 5) (5, 4) (5, 3) (5, 2) (6, 2) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (7, 5) (7, 6) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (1, 2) (1, 3) (2, 3) (2, 4) (3, 4) (3, 5) (3, 6) (2, 6) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (4, 7) (5, 7) (6, 7) (6, 6) (6, 5) (5, 5) (5, 4) (5, 3) (5, 2) (6, 2) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (4, 2) (5, 2) (5, 3) (5, 4) (5, 5) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (4, 2) (5, 2) (5, 3) (5, 4) (5, 5) (6, 5) (6, 6) (7, 6) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (4, 2) (5, 2) (5, 3) (5, 4) (5, 5) (6, 5) (7, 5) (7, 6) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (4, 2) (5, 2) (5, 3) (5, 4) (5, 5) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (4, 2) (5, 2) (6, 2) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (7, 5) (7, 6) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (4, 2) (5, 2) (6, 2) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (4, 2) (5, 2) (6, 2) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (7, 5) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8)

Maze 8:

A solution was found at:
(1, 1) (2, 1) (2, 2) (2, 3) (3, 3) (4, 3) (4, 4) (4, 5) (4, 6) (5, 6) (6, 6) (7, 6) (7, 7) (8, 7) (8, 8)

Maze 9:

A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:

(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (4, 1) (5, 1) (6, 1) (6, 2) (6, 3) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (4, 1) (5, 1) (6, 1) (6, 2) (6, 3) (7, 3) (7, 4) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (4, 1) (5, 1) (6, 1) (6, 2) (6, 3) (7, 3) (8, 3) (8, 4) (7, 4) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (4, 1) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (4, 1) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (4, 1) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (4, 1) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (4, 2) (3, 2) (3, 3) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (6, 1) (6, 2) (6, 3) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (6, 1) (6, 2) (6, 3) (7, 3) (7, 4) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (6, 1) (6, 2) (6, 3) (7, 3) (8, 3) (8, 4) (7, 4) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 3) (6, 3) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (7, 4) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (4, 1) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (6, 4) (5, 4) (4, 4) (3, 4) (2, 4) (2, 5) (1, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (5, 8) (6, 8) (7, 8) (8, 8)

Maze 10:

A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 5) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (4, 5) (4, 4) (5, 4) (6, 4) (6, 5) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (4, 5) (4, 4) (5, 4) (6, 4) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (4, 5) (4, 4) (5, 4) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (3, 6) (4, 6) (4, 5) (4, 4) (5, 4) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (7, 5) (6, 5) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 6) (5, 6) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 6) (5, 6) (6, 6) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 6) (5, 6) (6, 6) (6, 5) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 4) (5, 4) (6, 4) (6, 5) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 4) (5, 4) (6, 4) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 4) (5, 4) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)

A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (3, 3) (2, 3) (2, 4) (2, 5) (3, 5) (4, 5) (4, 4) (5, 4) (6, 4) (6, 3) (7, 3) (8, 3) (8, 4) (8, 5) (7, 5) (6, 5) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (8, 3) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (8, 3) (8, 4) (8, 5) (7, 5) (6, 5) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (8, 3) (8, 4) (8, 5) (7, 5) (6, 5) (6, 4) (5, 4) (4, 4) (4, 5) (4, 6) (5, 6) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (8, 3) (8, 4) (8, 5) (7, 5) (6, 5) (6, 4) (5, 4) (4, 4) (4, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (6, 3) (6, 4) (6, 5) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (6, 3) (6, 4) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (6, 3) (6, 4) (5, 4) (4, 4) (4, 5) (4, 6) (5, 6) (6, 6) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (6, 3) (6, 4) (5, 4) (4, 4) (4, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 7) (6, 8) (7, 8) (8, 8)
A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (7, 2) (7, 3) (6, 3) (6, 4) (5, 4) (4, 4) (4, 5) (3, 5) (3, 6) (4, 6) (5, 6) (6, 6) (6, 5) (7, 5) (8, 5) (8, 6) (8, 7) (8, 8)