CISP 430

Roman Vasilyev

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,
1,0,0,0,0,0,0,0,0,1,
1,0,1,1,1,1,1,0,1,
1,0,1,0,0,0,0,1,0,1,
1,0,1,1,1,1,1,0,1,
1,0,0,0,0,0,0,0,0,1,
1,0,1,1,1,1,1,0,1,
1,0,0,0,0,0,0,0,0,1,
1,1,0,1,1,1,1,0,1,
```

```
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" <<</pre>
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++)</pre>
             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':
                  // all directions have been tried
      return 0;
            // make compiler happy
return 0;
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;
}
```

Elementary State Debug Corole

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/rooms/source/vepos/WAZE/se4/Debug/WAZE,ese (process 45456) exited with code 0, on arroantically close the console when debugging stops.

Process any key to close this stricks at a subspace of the console when debugging stops.

Process any key to close this stricks at a subspace of the console when debugging stops.

```
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,
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,
1,0,1,1,1,1,1,0,1,
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" <<</pre>
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++)</pre>
             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;
}
```

```
Exploration was found at:
(5, 2) (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) (2, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1) (1, 1)
```

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,
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" <<</pre>
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++)</pre>
             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;
      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;
}
```

Microsoft Visual Studio Debug Console 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) 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) 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) 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) 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) 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) 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) 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) 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) 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) 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) 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) 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) 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) 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) 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) solution was found at:
, 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) solution was found at: , 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) solution was found at: , 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) solution was found at:
, 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) solution was found at: , 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) solution was found at: , 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) solution was found at: , 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) solution was found at: (, 13, 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) (7, 7) (7, 6) (8, 6) (8, 7) (8, 8) solution was found at: , 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) solution was found at:
, 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)

olution was found at: 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)

Nisource\reposVMZE\r64\DebugVMZE.exe (process 12048) exited with code 0.

Lly close the consols when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops to close this unifou

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:
(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) (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) (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:
(3, 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, 1) (8, 8)

A solution was found at:
(3, 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, 1) (8, 8)

A solution was found at:
(3, 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) (8, 7) (7, 7) (7, 8) (8, 8)

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

A sol

Timo: A A27 soconds

```
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,
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" <<</pre>
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++)</pre>
             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':
                  // all directions have been tried
      return 0;
            // make compiler happy
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;
      // 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;
}
```

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

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

A solution was found at:
(1, 1) (2, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3, 1) (3
```

ion was found at: (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) solution was found at: , 1) (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) solution was found at:
, 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) 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) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8) solution was found at:

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

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

a (1, 2) (1, 3) (2, 4) (3, 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, solution was found at:
, 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) solution was found at: , 11 (4, 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) solution was found at: , 1 (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) 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) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (8, 7) (8, 8) solution was found at:
1, 1 (1, 2) (1, 3) (2, 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, 5) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (7, 6) (8, 6) (8, 7) (8, 8)

A substition was found at: (1, 13) (2, 13) (3, 12) (4, 12) (5, 12) (5, 12) (5, 13) (6, 13) (7, 13) (6, 13) (7, 13) (7, 14) (6, 14) (7, 14) (7, 14) (8, 14) (8, 15) (8, 15) (8, 15) (8, 15) (8, 15) (8, 15) (8, 17) (8, 17) (8, 17) (8, 17) (8, 18) (8, 17) (8, 18) (8, 17) (8, 18) (8, 17) (1, 18) (1,

:\Users\roman\source\repos\MAZE\x64\Debug\MAZE.exe (process 12048) exited with code 0.
o automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops, enable Tools->Options->Options->Debugging->Automatically close the console when debugging stops, enable Tools->Options->Optio

```
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" <<</pre>
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++)</pre>
             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;
}</pre>
```

was found at:
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)

was found at:
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)

was found at:
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)

was found at:
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) (6, 6) (6, 5) (6, 4) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) 1 use found at:
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, 6) (6, 6) (6, 5) (5, 4) (5, 4) (5, 5) (4, 6) (4, 7) (5, 7) (5, 7) (7, 8) (6, 8) (8, 7) (7, 7) (7, 6) (6, 6) (6, 5) (5, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8) (8, 8) (8, 7) (7, 7) (7, 6) (6, 6) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, Compare from the control of the cont ton was found at: (, 1) (3, 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) on was found at:
4, 2) (4, 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, 7) (4, 7) (5, 7) (5, 8) (6, 8) 1, 2) (4, 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, 7) (4, 7) (5, 7) (5, 8) (6, 8) (6, 8) (6, 8) (6, 8) (6, 8) (7, 6) (8, 8) (8, uss found at: 2 (4, 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) uss found at: 2 (4, 2) (5, 2) (4, 3) (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) uss found at: 2 (4, 2) (5, 2) (6, 3) (6, 4) (6, 5) (6, 6) (7, 6) (7, 6) (7, 7) (8, 8) uss found at: 2 (4, 2) (5, 2) (6, 3) (6, 4) (6, 5) (6, 6) (7, 6) (7, 6) (8, 6) (8, 7) (8, 8) (4, 3) (1, 4) (2, 4) (3, 4) (3, 2) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 2) (6, 3) (6, 4) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8) found at: (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) (7, 7) (7, 8) (8, 8) found at: (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, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8) found at: was found at: 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) ion uss found at: (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) ion uss found at: (1, 2) (1, 3) (4, 2) (4, 2) (3, 4) (3, 4) (3, 4) (3, 2) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (7, 2) (6, 3) (6, 4) (6, 5) (6, 5) (4, 5) (4, 5) (4, 5) (4, 5) (4, 7) (5, 7) (5, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) was found at: 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, 7) (7, 7) (7, 7) (8Interest values below below (consist and the found at:
(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) (6, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8) (7, 4) (8, 4) found at: [1,3] (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) (6,5) (6,6) (7,6) (7,7) (8,8) (5,3) (1,3) (1,3) (1,4) (1,5) (1 Tound at: (3, 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) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8) (9, 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) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8) (1, 3) (1, 3) (1, 3) (1, 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) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8) (1, 3) Tenna at: (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, 5) (4, 7) (5, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (8, 7) (8, 8) ; Found at: (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) (7, 8) (8, 8) (7, 8) (8, und at: 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) (7, 7) (7, 6) (8, 6) (8, 7) found at:
(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) (6, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8) Tound at: (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) (6, 5) (6, 6) (7, 6) (7, 7) (8, 7) (8, 8) found at: (1, 2) (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) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (7, 7) (7, 8) (8, 8) : found at: (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) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8) : found at: (1, 2) (4, 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, 4) (6, 5) (5, 5) (4, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (8, 1) mens round act: 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) (6, 5) (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, 6) (8, 7) (1, 7 and at:
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) (8, 7) (8, 8) (8, 7) (8, 8 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) (8, 8) Tound at: (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, 6) (6, 6) (6, 5) (5, 5) (4, 6) (4, 7) (5, 7) (7, 8) (8, 8) (6, 8) (7, 8) (8, 8) found at: (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) Toulin att: (1, 2) (2, 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)

| Second Second

alsa tsunia dt: alsa 15, 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) alsa 15, 2 (8, 1) (8, 1) (8, 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) Touris st.: (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, 6) (6, 6) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (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, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (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, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (7, 6) (6, 6) (6, 5) (5, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 4) (8, 7) (8, s found at: (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) (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) s found at: (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) (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, 1) was found at:
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) (6, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8) was found at:
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) (6, 5) (6, 6) (7, 6) (7, 7) (8, 7) (8, 8) was found at: sas found at:
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) 13 (1, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (7, 3) (6, 3) (8, 4) (8, 4) (8, 5) (8, 6) (7, 6) (7, 7) (7, 8) (8, 8)

was found at:

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) (6, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8)

was found at:

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) (6, 5) (6, 5) (6, 6) (7, 6) (7, 7) (8, 7) (8, 7) (8, 8)

was found at:

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) (6, 5) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (8, 7) (8, 8)

was found at:

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) (6, 5) (6, 6) (7, 6) (8, 6) (7, 6) (8, 7) (7, 7) (7, 8) (8, 8)

was found at:

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)

was found at:

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, 8)

was found at:

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)

was found at:

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, 8)

was found at:

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, 8)

was found at:

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, 6) (4, 7) (5, 7) (5, 7) (5, 8) (6, 8) (7, 7) (7, 7) (8, 8)

was found at:

1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1)

Outlo 4::
, 13 (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: 0.458 see

ion was found at: (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) ion was found at: (4, 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) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8) (7, 8) (8 was found at: 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) (8, 8) was found at: 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) (8, 7) (8, (6, 6)

1 Found at:
(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, 4) (7, 3) (6, 4) (5, 4) (5, 5) (4, 5) (4, 5) (4, 6) (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) (6, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8) (9, 4) (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) (6, 5) (6, 6) (7, 6) (7, 7) (8, 8) (1, 4) (1, and at:

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, 8) (7, 8) (7, 7) (7, 6) (8, 8) (7, 8) (8, Point at:

(3, 2) (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) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (7, 6) (8, 6) (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) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8) (1, 4 uss found st: 22 (4, 3) (1, 4) (2, 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) (6, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8) uss found st: 22 (4, 2) (1, 4) (2, 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) (6, 5) (6, 6) (7, 6) (7, 7) (8, 7) (8, 8) uss found st: 24 (4, 2) (4, 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) (6, 5) (6, 6) (7, 6) (8, 7) (8, 8) (1, 2) . 3) (1, 4) (2, 4) (3, 4) (3, 3) (3, 2) (4, 2) (5, 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, 5) (4, 5) (4, 7) (4, 7) (5, 7) (6, 7) (6, 8) (7, 8) (7, 7) (8, 7) (8, 8) at: (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) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8) (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, 6) (4, 7) (5, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8) (1, 4 was found at: 2) (4, 3) (3, 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) (8, 7) (8, 8) was found at: 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, was found at:
2) (4, 3) (3, 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)
was found at:
2) (1, 3) (1, 4) (2, 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)
was found at:
2) (1, 4) (2, 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)
was found at: (8, 87) Found st: 1, 3) (1, 4) (2, 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, 6) (6, 6) (6, 5) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (7, 8) (8, 8) , 8) (6, 8) (7, 8) (8, 8) was found it:
2) (1, 2) (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, 6) (6, 6) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8) (7, 8) (8, 8) (was found at: 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, 6) (6, 6) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7) (5, 7) (5, 7) (5, 7) (6, 6) (6, 6) (6, 5) (7, 7 (8, 8) (8, 9) (8, 9) (8, 9) (8, 9) (8, 9) (8, 9) (8, 9) (8, 9) (8, 9) (8, 9) (7, 9) (8, 9) (7, 9) (8, 9) (7, 9) (8, 9) (7, 9) (8, 9) (7, 9) (8 mas round at. 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) (6, 6) (6, 5) (6, 4) (5, 5) (4, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 6) (8, 6) (7, 6) (8, 6) (7, 6) (8, 6) (7, 6) (8, 6) (7, 6) (8, 6) (8, 6) (7, 6) (8, 6) Found at: (1, 2) (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) (6, 6) (6, 5) (6, 4) (5, 4) (5, 5) (4, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 6) (8, 6) (7, 6) (8, 6) (7, 6) (8, 6) (7, 6) (8, 6) (7, 6) (8, 6) (7, 6) (8, 6) (6, 8) (7, 6) (8, 8) (7, 6) (8, 8) (8, 8) (8, 9) (8

was found at:
2) (1, 2) (3, 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) (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, 6) (7, 6) (8, 6) (7, 6) (8, 6) (7, 6) (8, 6) (7, 6) (8, 6) (7, 6) (8, 6) (7, 6) (8, 6)

(6, 8) from at: from at: (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) (6, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8) from at: (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) (6, 5) (6, 6) (7, 6) (7, 7) (8, 7) (8, 8) from at: (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) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8)

III Microsoft Vinal Studio Debug Console

Microsoft Visual Studio I	Debug Consc	le																																						_	
A solution was foun	d at:																																								
(1, 1) (1, 2) (1, 3 A solution was foun) (1, 4)) (8																										
(1, 1) (1, 2) (1, 3) (8																										
A solution was foun (1, 1) (1, 2) (1, 3) (8		(8,			(8, 5)									5) (6, 4)		(5,				6) (4,					8) (
(8, 8) A solution was foun	d at:																																								
(1, 1) (1, 2) (1, 3 (6, 8) (7, 8) (8,															(8															6, 4)		(5,									7) (
A solution was foun	d at:													(0.4																									(7.		0)
(1, 1) (1, 2) (1, 3 A solution was foun	d at:																																								
(1, 1) (1, 2) (1, 3 (8, 8)		(2, 4	1) (3,	4) (3, 3)) (4,	2) (5, 2)	(5, 1	l) (6,	1) (7, 1)	(8, 1	.) (8		(8,	3) (8	, 4)	(8, 5)) (8,	6) ((8, 7)) (7,	7) (7, 6)	(6,	5) (6,	5) (5, 5)	(4,	5) (4,	6) (3, 6)		7) (4,	7) ((5, 8	(6,	8) (
A solution was foun $(1, 1)$ $(1, 2)$ $(1, 3)$		(2,	1) (3,	4) (3, 3)	(3, 2) (4,	2) (5, 2)	(5, 1	l) (6,	1) (7, 1)	(8, 1	(8	, 2)	(8,	3) (8	, 4)	(8, 5)	(8,	6) ([7, 6]	(7,	7) (7, 8)	(8,	3)													
A solution was foun (1, 1) (1, 2) (1, 3		(2.	i) (3.	4) () (4.	2) ((5. 1	(6.	1) (7. 1)	(8. 1) (8		(8.	3) (8	. 4)	(8. 5)	(8.	6) (7. 61	(7.	7) (8. 7)		3)													
A solution was foun (1, 1) (1, 2) (1, 3	d at:																												4) (E E\	(4	E) (4	6) (4 7)		7) (5	9) ((6 O)	(7 9	1) /0	٥١
A solution was foun	d at:																																								
(1, 1) (1, 2) (1, 3 (8, 8)		(2, -	+) (3,	4) ((3, 2) (4,	2) (5, 2)	(5, 1	(0,	1) ((8, 1	.) (8		(8, :	3) (8	, 4)	(8, 5)) (8,	0) ((/, 0)) (0,	0) (1	0, 5)	(0,	•) (5,	4) (5, 5)		o) (4,	0) (+, /)		/) (5,	8) (0, 8)	(/, 8	6) (7,	"
A solution was foun (1, 1) (1, 2) (1, 3) (8		(8,			(8, 5)								(5,	4) (5) (4,				7) (4,			(5, 8		8) (
(8, 8) A solution was foun	d at:																																								
(1, 1) (1, 2) (1, 3 (7, 7) (8, 7) (8,) (8																								(5, 8		8) (
A solution was foun (1, 1) (1, 2) (1, 3	d at:		1) /3				\ (4	2) /		/s 1) (6			/9 1	\ /9		/9 :	2) /9		/e c1	/ / 9	6) (1 (6	6) (6 5)		:) (4	E) /	4 6)		7) (5	7) (c e/		9) /7	9)	0 01			
A solution was foun	d at:																																								0)
(1, 1) (1, 2) (1, 3 A solution was foun	d at:																																								
(1, 1) (1, 2) (1, 3 A solution was foun	d at:																																								
(1, 1) (1, 2) (1, 3 (8, 8)) (1, 4)		1) (3,	4) (3, 3)	(3, 2) (4,	2) (5, 2)	(5, 1	l) (6,	1) (7, 1)	(8, 1	(8		(8,	3) (8		(8, 5)	(8,	6) ((7, 6)	(6,	6) (1	6, 5)		5) (4,	5) (4, 6)		5) (3,	7) (4, 7)		7) (5,	8) (6, 8)	(7, 8	(7,	7) (
A solution was foun (1, 1) (1, 2) (1, 3		(2. 4	1) (3.	4) ((3. 2) (4.	2) (5. 2)	(5. 1	(6.	1) (7. 1)	(8, 1) (8			3) (8	. 4)	(7. 4)	(7.	3) (6. 31	(6.	4) (6. 5)	(6.	5) (7.	6) ((7.	3) (8.	8)								
A solution was foun (1, 1) (1, 2) (1, 3	d at:																																								
A solution was foun	d at:																																								
(1, 1) (1, 2) (1, 3 A solution was foun	d at:																																								
(1, 1) (1, 2) (1, 3 A solution was foun	d at:																																								
(1, 1) (1, 2) (1, 3 A solution was foun) (1, 4) d at:		1) (3,	4) (3, 3)	(3, 2) (4,	2) (5, 2)	(5, 1	l) (6,	1) (7, 1)	(8, 1	(8		(8,	3) (8		(7, 4)		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)			
(1, 1) (1, 2) (1, 3 A solution was foun															8) (8															4, 6)											8)
(1, 1) (1, 2) (1, 3 (8, 8)) (8															4, 6)											6) (
A solution was foun																																							(7.		0)
(1, 1) (1, 2) (1, 3 A solution was foun	d at:																																								
(1, 1) (1, 2) (1, 3 (8, 8)		(2, 4	1) (3,	4) (3, 3)	(3, 2) (4,	2) (5, 2)	(5, 1	(6,	1) (/, 1)	(8, 1	.) (8		(8,	3) (8	, 4)	(7, 4)	7,	3) ((6, 3)	(6,	4) (1	0, 5)	(5,) (4,	5) (4, 6)	(3,	3) (3,	7) (4, 7)		7) (5,	8) (6, 8)	(7, 8) (7,	7) (
A solution was foun (1, 1) (1, 2) (1, 3) (4,							(8, 1	(8			3) (8				3) ((6,				5) (4,	5) (4, 6)		5) (3,				7) (5,	, 8) ((6, 8)	(7, 8		7) (
(8, 6) (8, 7) (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,
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" <<</pre>
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++)</pre>
             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) (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) Time: 0.002 seconds
C:\Users\roman\source\repos\MAZE\x64\Debug\MAZE.exe (process 26524) 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 . . .
```

Make 7 Source Code:

/*

```
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" <<</pre>
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++)</pre>
             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':
                  // all directions have been tried
      return 0;
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;
}
```

A solution sus 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, 7) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8) (4, 5) (1, 6) (1, 7) (1, 8) (2, 8) (3, 8) (4, 8) (4, 7) (5, 7) (6, 7) (6, 7) (6, 6) (7, 5) (8, 6) (8, 7) (8, 8) (4, 8) (4, 7) (3, 7) (8, 7) (8, 7) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 8) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 7) (8, 8) (8,

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,
1,1,0,1,1,1,0,0,1,1,
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" <<</pre>
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++)</pre>
             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;
}</pre>
```

Output:

Microsoft Visual Studio Debug Console

```
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) Time: 0.001 seconds

C:\Users\roman\source\repos\MAZE\x64\Debug\MAZE.exe (process 49356) 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 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,
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" <<</pre>
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);
      // 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++)</pre>
             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;
}</pre>
```

Output:

```
A Solution use found at:
(3, 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) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4) (8, 4
```

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
// 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" <<</pre>
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;
```

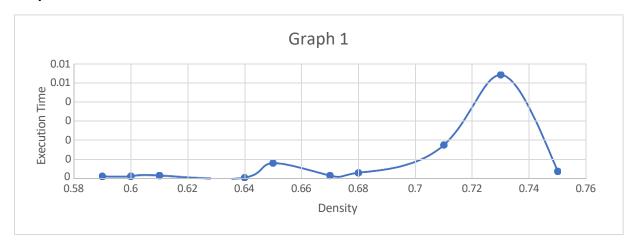
```
printf("\nA solution was found at:\n"); for (i = 0; i <= n; i++)</pre>
             printf("(%d, %d) ", sol[i].row, sol[i].col); printf("");
}
int getNextCell(int n)
      // set initial position and direction for the next cell
      sol[n + 1].row = sol[n].row;
      sol[n + 1].col = sol[n].col;
      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':
                  // all directions have been tried
      return 0;
            // make compiler happy
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;
      // 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:

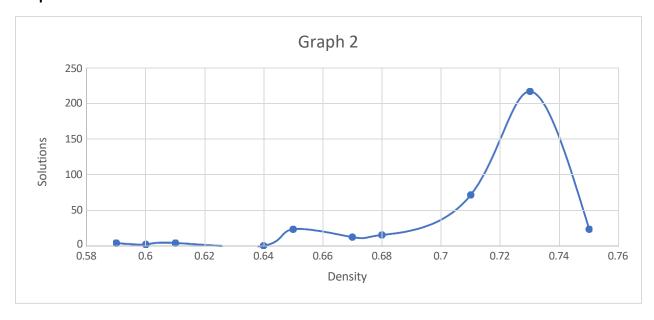
Microsoft Visual Studio Debug Console

rs\roman\source\repos\MAZE\x64\Debug\MAZE.exe (process 12492) exited with code θ.
omatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
any kev 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 deadends 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, 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:

```
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)
Maze 4:
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) (8, 4) (7, 4) (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) (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)
(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) (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) (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) (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) (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) (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)
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) (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) (7, 4) (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) (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) (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) (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) (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) (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) (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)
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) (7, 4) (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) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7)

(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) (4, 7) (5, 7)

(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)

(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)

(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)

(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:

A solution was found at:

A solution was found at:

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

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) (7, 4) (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) (8, 4) (7, 4) (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)

(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) (7, 4) (6, 4) (5, 5) (4, 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) (8, 4) (7, 4) (6, 4) (5, 5) (4, 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) (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) (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) (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) (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:

A solution was found a

(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:

(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) (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) (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) (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)

Maze 5:

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) (8, 7) (7, 7) (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)

(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, 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) (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) (8, 7) (7, 7) (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) (8, 7) (7, 7) (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) (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) (8, 4) (8, 5) (8, 6) (7, 6) (6, 6) (6, 5) (6, 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, 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) (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) (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) (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) (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) (6, 6) (7, 6) (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) (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, 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) (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) (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) (5, 4) (5, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8)

(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, 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) (5, 4) (5, 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) (5, 4) (5, 5) (6, 6) (7, 6) (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) (7, 4) (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) (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) (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) (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) (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) (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) (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, 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) (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) (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) (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) (6, 4) (6, 5) (6, 6) (7, 6) (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) (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) (6, 4) (6, 5) (6, 6) (7, 6) (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) (7, 4) (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) (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) (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, 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) (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) (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, 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) (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) (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) (6, 4) (5, 5) (6, 5) (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) (6, 4) (5, 4) (5, 5) (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) (6, 4) (5, 4) (5, 5) (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) (6, 4) (5, 4) (5, 5) (6, 5) (6, 6) (7, 6) (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) (7, 4) (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) (7, 4) (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) (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) (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) (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) (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) (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) (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) (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) (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) (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) (8, 7) (7, 7) (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) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (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) (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) (8, 7) (7, 7) (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) (7, 3) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (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) (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, 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) (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) (7, 3) (7, 4) (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, 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) (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) (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) (6, 6) (6, 5) (6, 4) (5, 4) (5, 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) (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) (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) (7, 3) (7, 4) (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) (7, 3) (7, 4) (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) (7, 3) (7, 4) (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, 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) (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) (7, 3) (7, 4) (6, 4) (6, 5) (6, 6) (7, 6) (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) (7, 3) (7, 4) (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) (7, 3) (7, 4) (6, 4) (6, 5) (6, 6) (7, 6) (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) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (8, 8)

(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) (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) (7, 3) (7, 4) (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, 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) (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) (7, 3) (7, 4) (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, 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) (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) (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) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (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) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (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) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (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) (7, 3) (7, 4) (6, 4) (5, 4) (5, 5) (6, 5) (6, 6) (7, 6) (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) (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) (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) (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) (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) (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:

(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) (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) (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) (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) (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) (7, 3) (6, 3) (6, 4) (6, 5) (6, 6) (7, 6) (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) (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) (7, 3) (6, 3) (6, 4) (6, 5) (6, 6) (7, 6) (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) (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) (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) (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, 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) (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) (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, 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) (6, 5) (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) (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) (8, 7) (7, 7)

(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) (7, 3) (6, 3) (6, 4) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (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)

(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) (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) (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) (7, 3) (6, 3) (6, 4) (7, 4) (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) (7, 3) (6, 3) (6, 4) (7, 4) (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) (7, 3) (6, 3) (6, 4) (7, 4) (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, 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) (5, 4) (5, 5) (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) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (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) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (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) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (6, 5) (6, 6) (7, 6) (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) (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) (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) (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) (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) (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) (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) (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) (5, 4) (5, 5) (4, 6) (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) (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) (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) (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) (8, 7) (7, 7) (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) (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, 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) (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) (8, 7) (7, 7) (7, 6) (6, 6) (6, 5) (5, 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) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (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) (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) (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) (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) (6, 6) (6, 6) (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) (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) (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) (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) (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) (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) (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) (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) (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) (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) (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) (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, 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) (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) (2, 1) (3, 1) (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) (2, 1) (3, 1) (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) (2, 1) (3, 1) (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) (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) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8)
```

(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) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8)

(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) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8)

(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) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7)

(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) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7)

(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) (7, 4) (7, 3) (6, 3) (6, 4) (6, 5) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 7) (5, 7)

(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) (7, 4) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (6, 5) (6, 6) (7, 6) (7, 7) (7, 8) (8, 8)

(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) (7, 4) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (6, 5) (6, 6) (7, 6) (7, 7) (8, 7) (8, 8)

(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) (7, 4) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8)

(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) (7, 4) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (7, 7)

(7, 8)(8, 8)

A solution was found at:

(7, 8) (7, 7) (8, 7) (8, 8) A solution was found at:

(5, 8) (6, 8) (7, 8) (8, 8) A solution was found at:

(7, 8) (8, 8)

(7, 8) (7, 7) (7, 6) (8, 6) (8, 7) (8, 8) A solution was found at:

(5, 8) (6, 8) (7, 8) (7, 7) (8, 7) (8, 8) A solution was found at:

(5, 8) (6, 8) (7, 8) (7, 7) (7, 6) (8, 6) (8, 7) (8, 8)

(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) (7, 4) (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) (8, 4) (7, 4) (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) (8, 4) (7, 4) (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) (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) (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) (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) (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) (7, 4) (7, 3) (6, 3) (6, 4) (5, 4) (5, 5) (4, 5) (4, 6) (3, 6) (3, 7) (4, 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) (8, 4) (7, 4) (6, 4) (6, 5) (6, 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) (7, 4) (6, 4) (6, 5) (6, 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) (7, 4) (6, 4) (6, 5) (6, 6) (7, 6) (8, 6) (8, 7) (8, 8)

A solution was found at:

 $(1,1)\ (2,1)\ (3,1)\ (3,2)\ (4,2)\ (5,2)\ (5,1)\ (6,1)\ (7,1)\ (8,1)\ (8,2)\ (8,3)\ (8,4)\ (7,4)\ (6,4)\ (6,5)\ (6,6)\ (7,6)\ (8,6)\ (8,7)\ (7,7)\ (7,8)\ (8,8)$

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) (7, 4) (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) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (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) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (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, 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) (7, 4) (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) (2, 1) (3, 1) (3, 2) (4, 2) (5, 2) (5, 1) (6, 1) (7, 1) (8, 1) (8, 2) (8, 3) (8, 4) (7, 4) (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, 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) (7, 4) (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) (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) (8, 4) (7, 4) (6, 4) (5, 4) (5, 5) (6, 5) (6, 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) (7, 4) (6, 4) (5, 4) (5, 5) (6, 5) (6, 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) (7, 4) (6, 4) (5, 4) (5, 5) (6, 6) (6, 6) (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) (8, 4) (7, 4) (6, 4) (5, 4) (5, 5) (6, 5) (6, 6) (7, 6) (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) (7, 4) (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) (8, 4) (7, 4) (6, 4) (5, 5) (4, 5) (4, 5) (4, 6) (4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (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) (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) (8, 4) (7, 4) (6, 4) (5, 5) (4, 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) (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) (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) (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) (7, 4) (8, 4) (8, 5) (8, 6) (8, 7) (8, 8)

(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) (8, 7) (7, 7) (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) (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, 6) (6, 6) (6, 5) (6, 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) (8, 4) (8, 5) (8, 6) (8, 7) (7, 7) (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) (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, 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) (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:

(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) (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) (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) (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, 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) (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) (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) (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) (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) (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) (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) (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) (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) (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) (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) (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, 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) (6, 5) (6, 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) (6, 4) (6, 5) (6, 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) (6, 5) (6, 6) (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) (6, 5) (6, 6) (7, 6) (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) (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) (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) (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) (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) (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, 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) (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) (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) (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, 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) (6, 5) (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) (7, 4) (6, 4) (5, 5) (6, 5) (6, 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) (6, 4) (5, 4) (5, 5) (6, 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) (6, 6) (6, 6) (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) (6, 5) (6, 6) (7, 6) (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) (6, 4) (5, 4) (5, 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) (7, 4) (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) (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, 6) (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) (6, 5) (6, 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) (6, 5) (6, 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) (6, 5) (6, 6) (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) (6, 5) (6, 6) (7, 6) (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) (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) (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) (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) (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, 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) (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) (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) (5, 5) (4, 6) (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) (6, 5) (5, 5) (4, 6) (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) (8, 7) (7, 7) (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) (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, 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) (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) (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)

(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) (6, 6) (6, 5) (5, 5) (4, 5) (4, 6)

(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) (6, 6) (6, 5) (5, 5) (4, 5) (4, 6)

(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:

A solution was found at:

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

(4, 7) (5, 7) (5, 8) (6, 8) (7, 8) (7, 7) (8, 7) (8, 8)

(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) (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, 7) (8, 8)

(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) (6, 5) (6, 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) (5, 4) (5, 5) (6, 5) (6, 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) (6, 5) (6, 6) (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) (6, 5) (6, 6) (7, 6) (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) (5, 4) (5, 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)

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, 6) (8, 7) (8, 8)

(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, 6) (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)

(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, 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, 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, 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, 6) (8, 7) (8, 8)