

Maaz Siddiqui

CS313 Project 3

Problem

```
=====
0 1 0 0 0 0 0 0 0 1
0 0 0 1 0 1 0 1 0 1
0 1 0 1 0 1 1 1 1 1
1 0 0 1 0 0 0 1 0 0
1 0 1 1 0 1 0 1 0 1
1 0 0 0 1 1 0 1 0 0
0 0 1 0 0 0 0 1 1 0
0 1 1 0 1 1 0 0 0 0
1 1 0 1 1 1 0 1 0 1
1 0 0 0 0 0 0 1 0 0
```

Start backtracking from [3, 9]
Start backtracking from [3, 8]
Start backtracking from [4, 8]
Start backtracking from [5, 8]
Start backtracking from [5, 9]
Start backtracking from [6, 9]
Start backtracking from [7, 9]

Solution

```
=====
2 1 0 0 0 0 0 0 0 1
2 2 2 1 0 1 0 1 0 1
0 1 2 1 0 1 1 1 1 1
1 2 2 1 0 0 0 1 0 0
1 2 1 1 0 1 0 1 0 1
1 2 2 2 1 1 0 1 0 0
0 0 1 2 2 2 2 1 1 0
0 1 1 0 1 1 2 2 2 0
1 1 0 1 1 1 0 1 2 1
1 0 0 0 0 0 0 1 2 2
```

Problem

```
=====
0 0 1 0 0 0 1 1 0 1
1 0 0 1 0 1 0 0 0 1
0 1 0 0 0 1 1 1 0 1
0 0 1 1 0 0 0 1 0 0
1 0 0 1 1 1 1 1 0 1
1 0 0 1 0 1 1 0 0 1
0 0 1 0 1 0 0 1 1 1
0 1 1 0 0 0 0 0 1 1
0 1 0 1 1 1 0 0 0 0
0 0 0 1 1 0 0 1 1 0
```

Start backtracking from [3, 6]
Start backtracking from [3, 5]
Start backtracking from [3, 4]
Start backtracking from [0, 5]
Start backtracking from [0, 3]
Start backtracking from [0, 4]
Start backtracking from [1, 4]

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```
Start backtracking from [2, 4]
Start backtracking from [2, 3]
Start backtracking from [2, 2]
Start backtracking from [1, 2]
Start backtracking from [1, 1]
Start backtracking from [0, 1]
Start backtracking from [0, 0]
No Solution Found
```

Problem

```
=====
0 0 0 0 1 1 0 1 0 0
0 1 1 0 0 0 0 1 1 0
0 1 1 0 1 1 0 0 0 0
1 1 0 1 1 1 0 1 0 1
1 0 0 0 0 0 0 1 0 0
0 1 0 1 0 1 0 0 0 1
0 0 0 1 0 1 0 1 0 1
0 1 0 1 0 1 1 1 1 1
1 0 1 1 0 1 0 0 0 1
1 0 0 1 0 0 0 1 0 0
```

```
Start backtracking from [0, 8]
Start backtracking from [0, 9]
Start backtracking from [1, 9]
Start backtracking from [2, 9]
Start backtracking from [4, 9]
Start backtracking from [6, 8]
Start backtracking from [6, 6]
```

Solution

```
=====
2 2 2 2 1 1 0 1 0 0
0 1 1 2 2 2 2 1 1 0
0 1 1 0 1 1 2 2 2 0
1 1 0 1 1 1 0 1 2 1
1 0 0 0 2 2 2 1 2 0
0 1 0 1 2 1 2 2 2 1
0 0 0 1 2 1 0 1 0 1
0 1 0 1 2 1 1 1 1 1
1 0 1 1 2 1 2 2 2 1
1 0 0 1 2 2 2 1 2 2
```

Problem

```
=====
0 0 0 0 1 1 0 1 0 0
0 1 1 0 0 0 0 1 1 0
0 1 1 0 1 1 0 0 0 0
1 1 0 1 1 1 0 1 0 1
1 0 0 0 1 0 0 1 0 0
0 1 0 1 0 1 0 0 0 1
0 0 0 1 0 1 0 1 0 1
0 1 0 1 0 1 1 1 1 1
1 0 1 1 0 1 0 0 0 1
```

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1 0 0 1 0 0 0 1 0 0

Start backtracking from [0, 8]
Start backtracking from [0, 9]
Start backtracking from [1, 9]
Start backtracking from [2, 9]
Start backtracking from [4, 9]
Start backtracking from [6, 8]
Start backtracking from [6, 6]
Start backtracking from [4, 5]
Start backtracking from [3, 6]
Start backtracking from [4, 6]
Start backtracking from [5, 6]
Start backtracking from [5, 7]
Start backtracking from [5, 8]
Start backtracking from [4, 8]
Start backtracking from [3, 8]
Start backtracking from [2, 8]
Start backtracking from [2, 7]
Start backtracking from [2, 6]
Start backtracking from [0, 6]
Start backtracking from [1, 6]
Start backtracking from [1, 5]
Start backtracking from [1, 4]
Start backtracking from [2, 3]
Start backtracking from [1, 3]
Start backtracking from [0, 3]
Start backtracking from [0, 2]
Start backtracking from [0, 1]
Start backtracking from [2, 0]
Start backtracking from [1, 0]
Start backtracking from [0, 0]
No Solution Found