

## Steepest\_Ascent:

state:

```
[[0 0 1 0 0 0 0]
 [0 0 0 0 0 0 1]
 [0 0 0 0 0 0 0]
 [1 0 0 1 0 0 0]
 [0 0 0 0 1 0 0]
 [0 1 0 0 0 0 0]
 [0 0 0 0 0 1 1 0]
 [0 0 0 0 0 0 0 0]]
```

3

```
[[0 0 1 0 0 0 0]
 [0 0 0 0 0 0 1]
 [0 0 0 1 0 0 0]
 [1 0 0 0 0 0 0]
 [0 0 0 0 1 0 0]
 [0 1 0 0 0 0 0]
 [0 0 0 0 0 1 1 0]
 [0 0 0 0 0 0 0 0]]
```

2

```
[[0 0 1 0 1 0 0]
 [0 0 0 0 0 0 1]
 [0 0 0 1 0 0 0]
 [1 0 0 0 0 0 0]
 [0 0 0 0 0 0 0]
 [0 1 0 0 0 0 0]
 [0 0 0 0 0 1 1 0]
 [0 0 0 0 0 0 0 0]]
```

1

[[0 0 0 0 1 0 0 0]  
[0 0 0 0 0 0 0 1]  
[0 0 0 1 0 0 0 0]  
[1 0 0 0 0 0 0 0]  
[0 0 0 0 0 0 0 0]  
[0 1 0 0 0 0 0 0]  
[0 0 0 0 0 1 1 0]  
[0 0 1 0 0 0 0 0]]

0

[[0 0 0 0 1 0 0 0]  
[0 0 0 0 0 0 0 1]  
[0 0 0 1 0 0 0 0]  
[1 0 0 0 0 0 0 0]  
[0 0 0 0 0 0 1 0]  
[0 1 0 0 0 0 0 0]  
[0 0 0 0 0 1 0 0]  
[0 0 1 0 0 0 0 0]]

state:

[[0 0 0 0 0 0 1 0]  
[0 1 0 1 0 0 0 0]  
[0 0 0 0 0 1 0 0]  
[0 0 0 0 0 0 0 1]  
[0 0 0 0 0 0 0 0]  
[0 0 0 0 1 0 0 0]  
[0 0 0 0 0 0 0 0]  
[1 0 1 0 0 0 0 0]]

2

[[0 0 0 0 0 0 1 0]

[01010000]  
[00000100]  
[00000001]  
[00000000]  
[00001000]  
[00100000]  
[10000000]]

1

[[00000010]  
[00010000]  
[00000100]  
[00000001]  
[01000000]  
[00001000]  
[00100000]  
[10000000]]

1

state:

[[00000000]  
[00001000]  
[00000000]  
[00000000]  
[00000100]  
[00000010]  
[10010001]  
[01100000]]

7

[[00000001]  
[00001000]

[00000000]  
[00000000]  
[00000100]  
[00000010]  
[10010000]  
[01100000]]

4

[[00000001]  
[00001000]  
[00100000]  
[00000000]  
[00000100]  
[00000010]  
[10010000]  
[01000000]]

3

[[00000001]  
[00001000]  
[00100000]  
[00000100]  
[00000000]  
[00000010]  
[10010000]  
[01000000]]

2

[[00000001]  
[10001000]  
[00100000]  
[00000100]

[00000000]  
[00000010]  
[00010000]  
[01000000]]

2

state:

[[00000100]  
[10000000]  
[00100000]  
[00000010]  
[01000000]  
[00010001]  
[00000000]  
[00001000]]

1

[[00000100]  
[10000000]  
[00100000]  
[00000010]  
[00000000]  
[00010001]  
[01000000]  
[00001000]]

1

1

4

Success\_percent = 25.0

Average\_success\_steps4.0

Average\_failure\_steps2.3333333333333335