

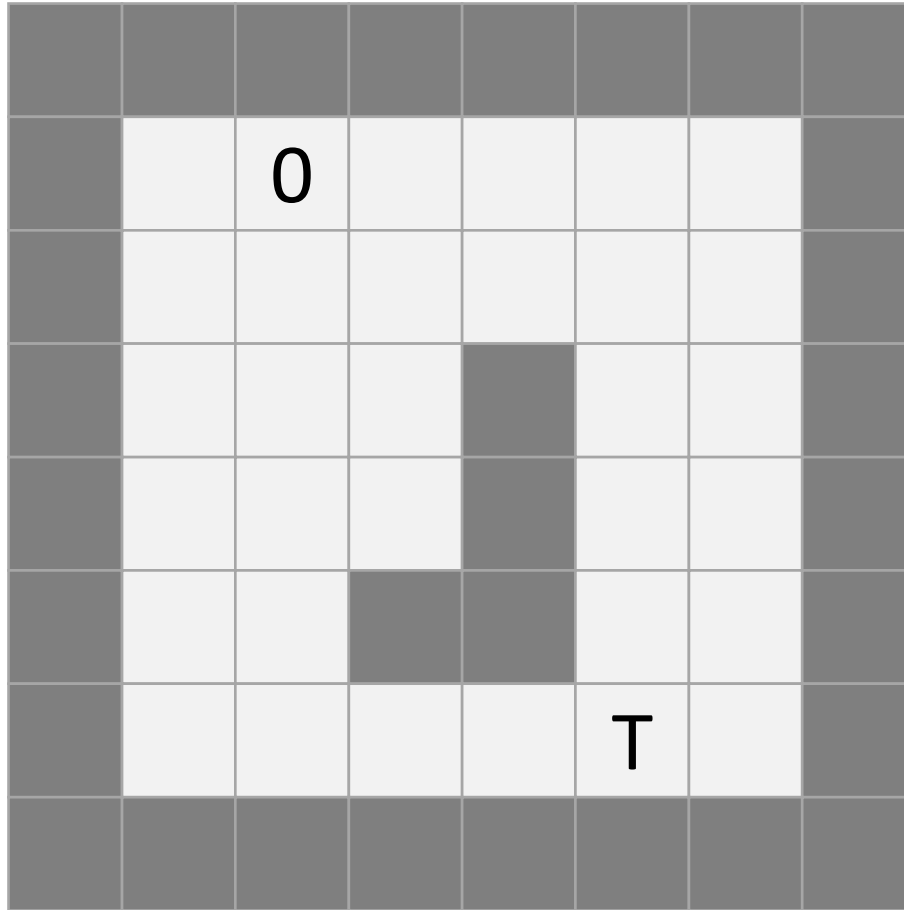
Shortest Path Problem

Slow Version

Slow Version

Path Length

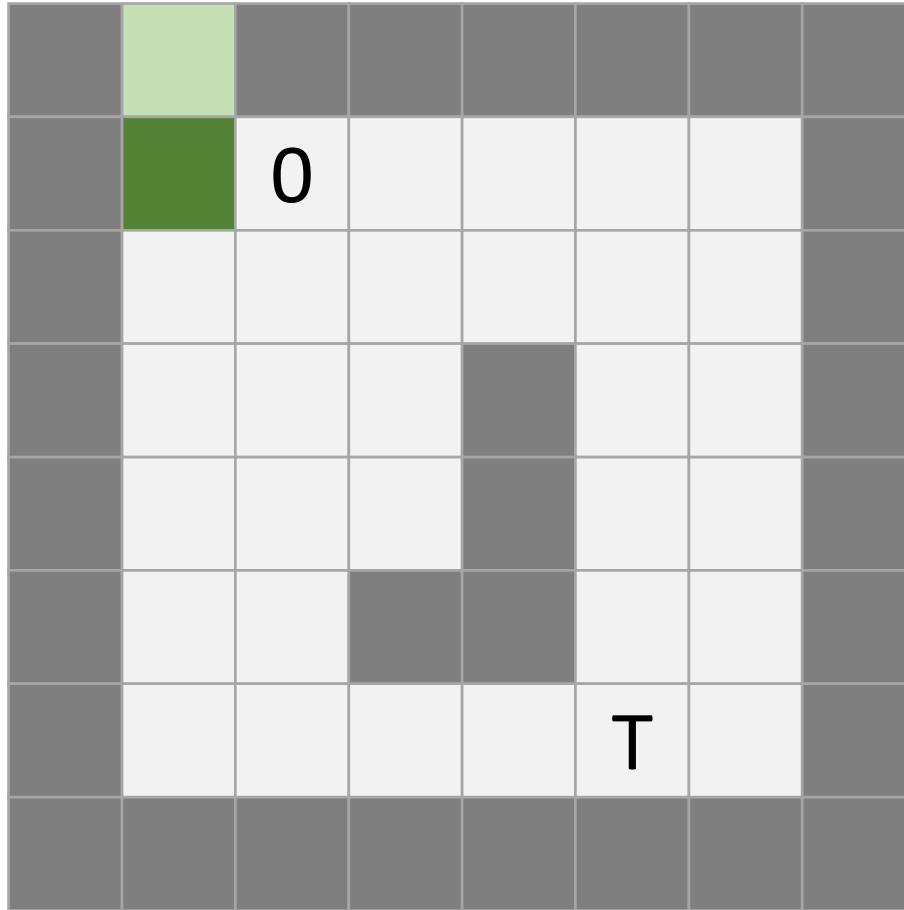
$i = 1$



Slow Version

Path Length

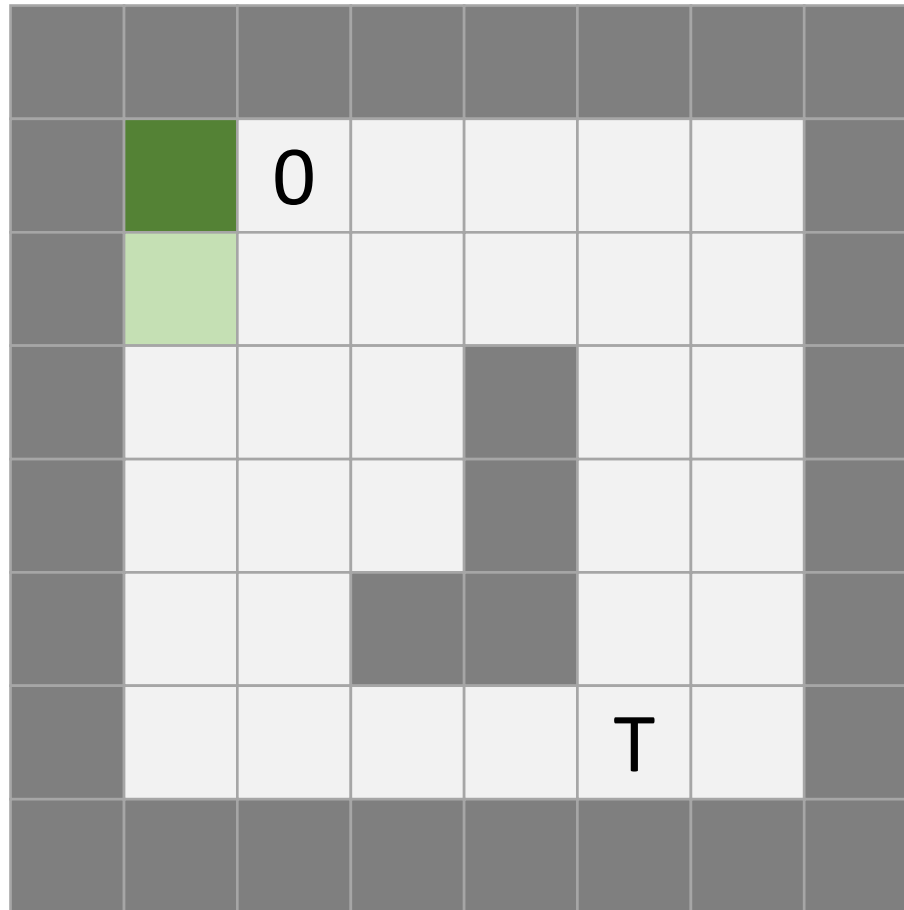
$i = 1$



Slow Version

Path Length

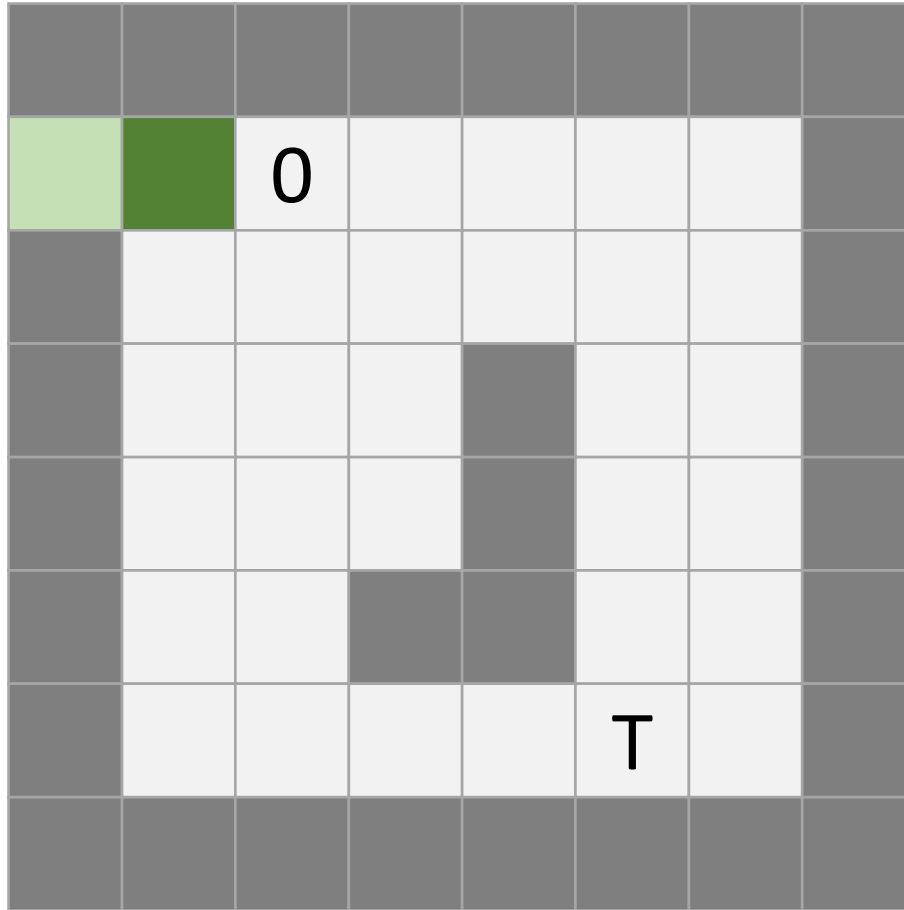
$i = 1$



Slow Version

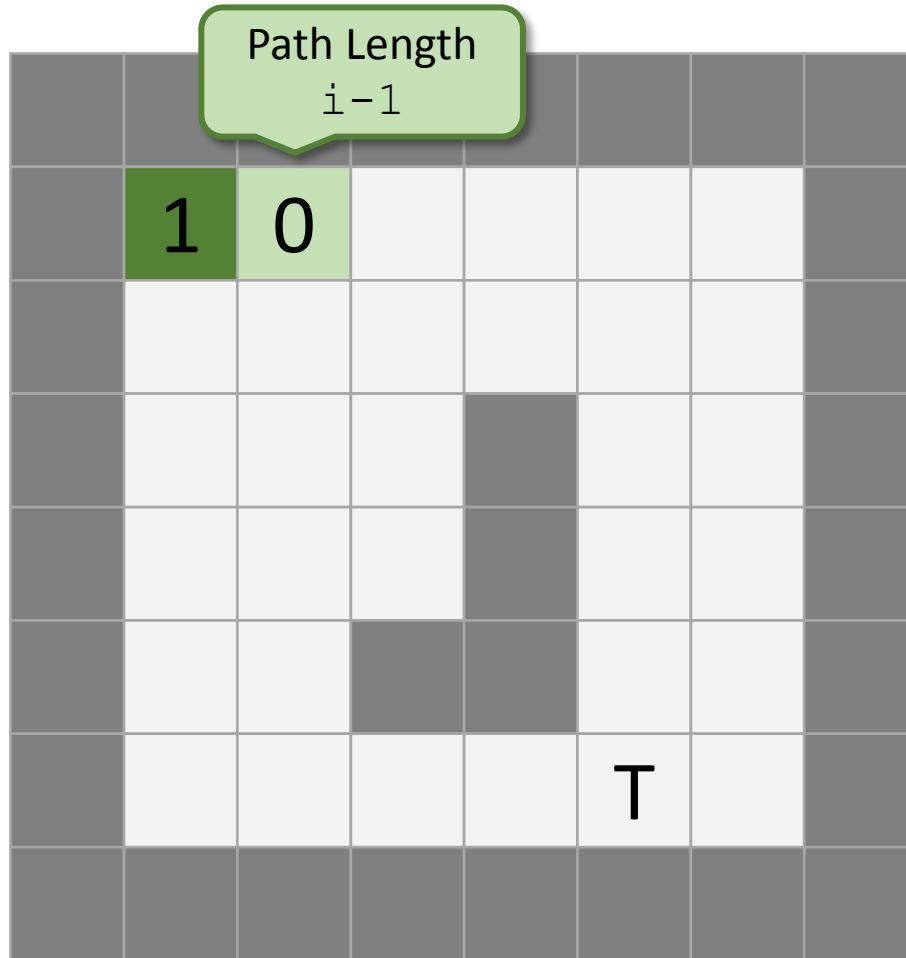
Path Length

$i = 1$



Slow Version

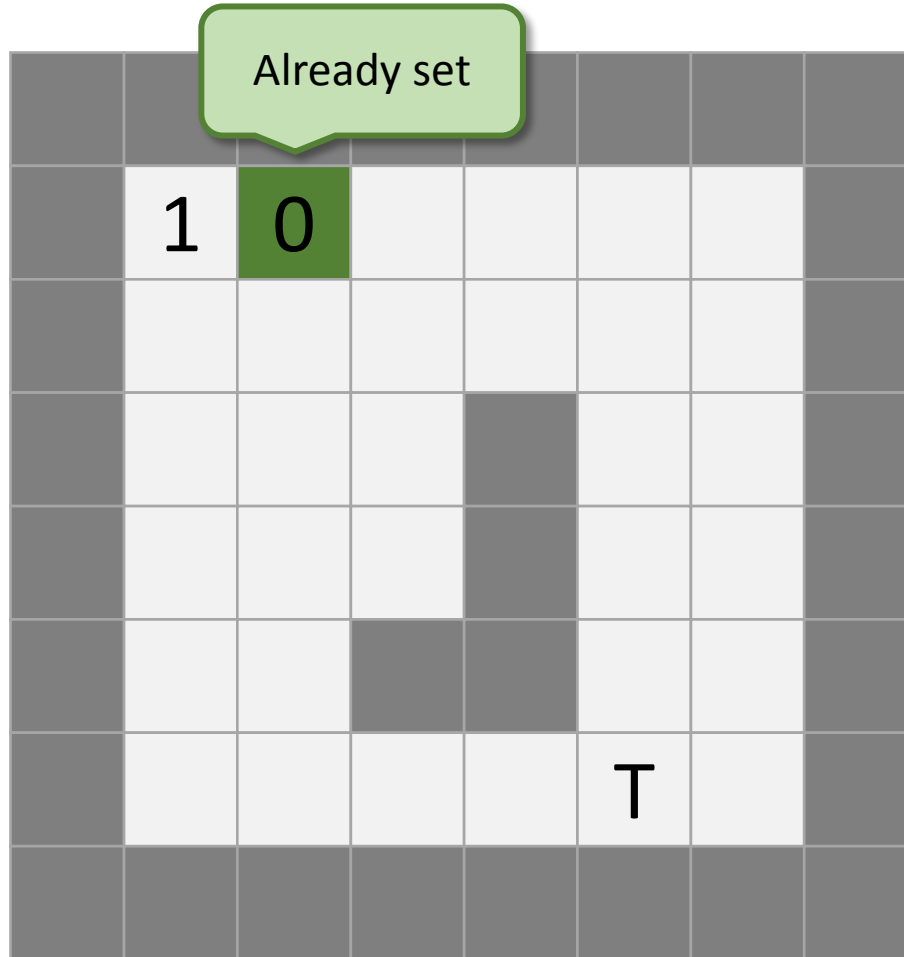
Path Length
 $i = 1$



Slow Version

Path Length

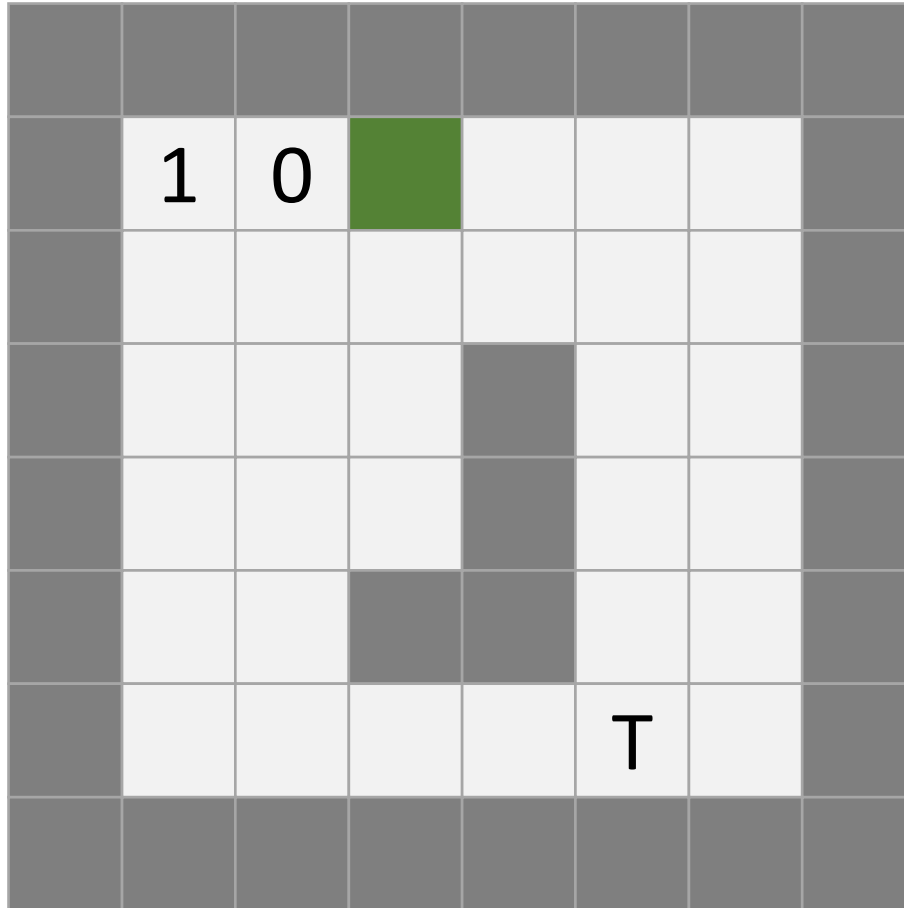
$i = 1$



Slow Version

Path Length

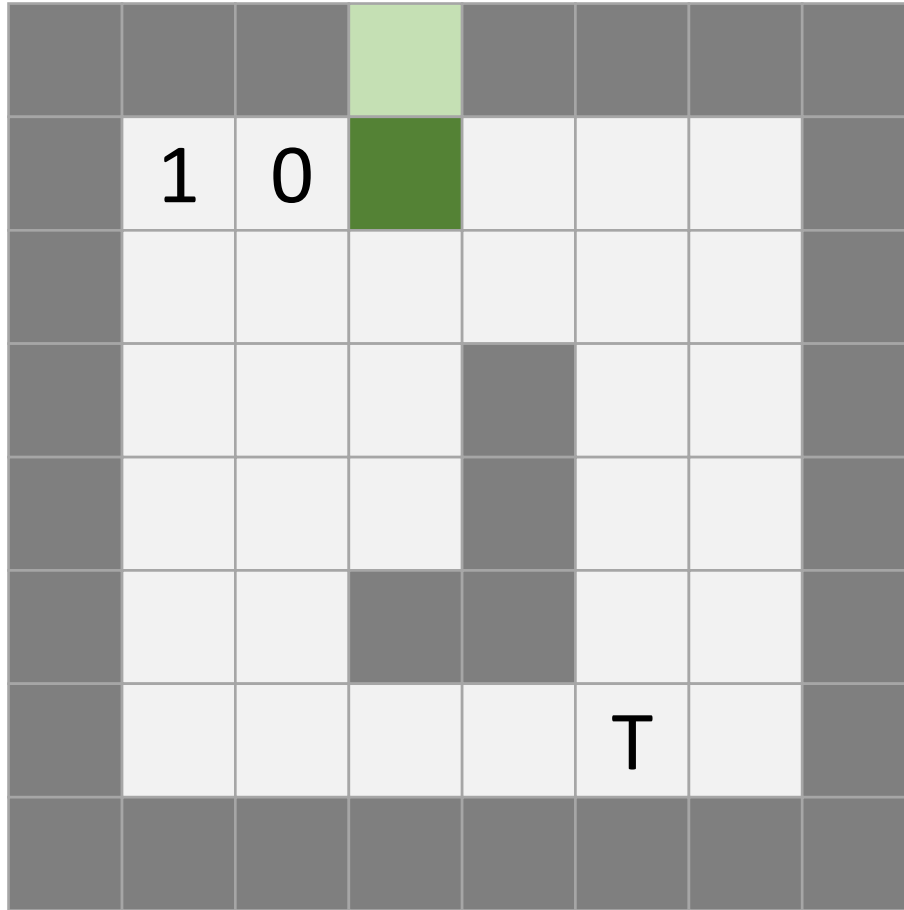
$i = 1$



Slow Version

Path Length

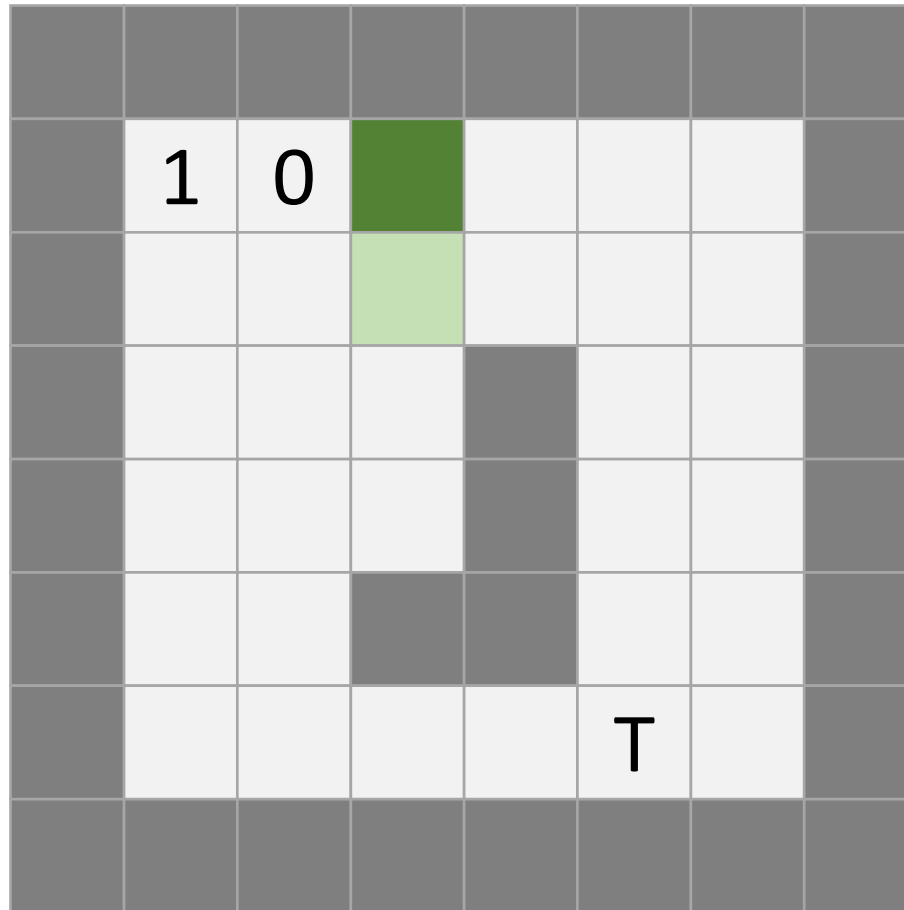
$i = 1$



Slow Version

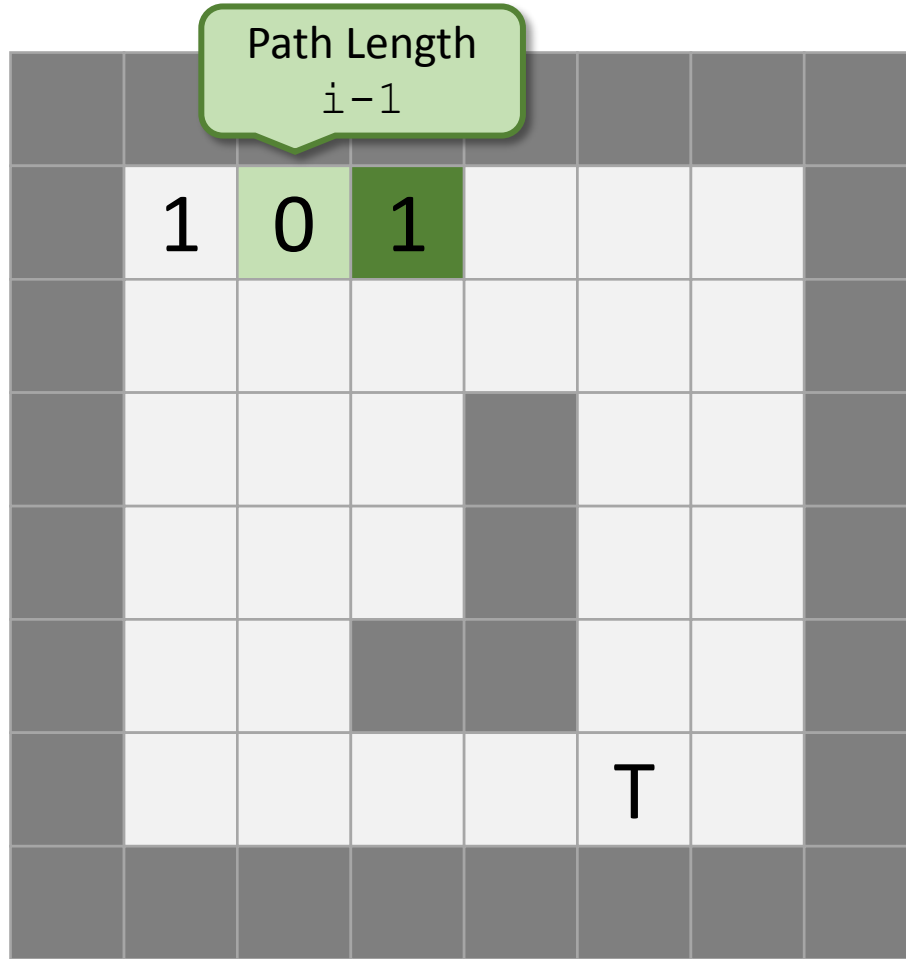
Path Length

$i = 1$



Slow Version

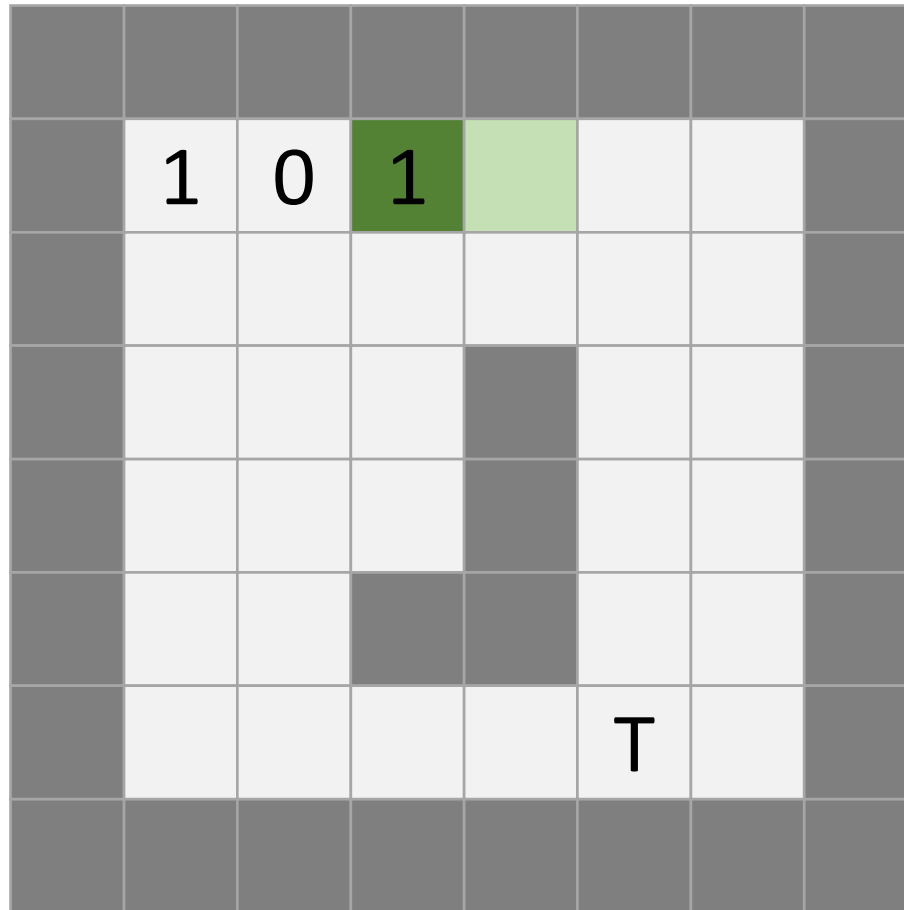
Path Length
 $i = 1$



Slow Version

Path Length

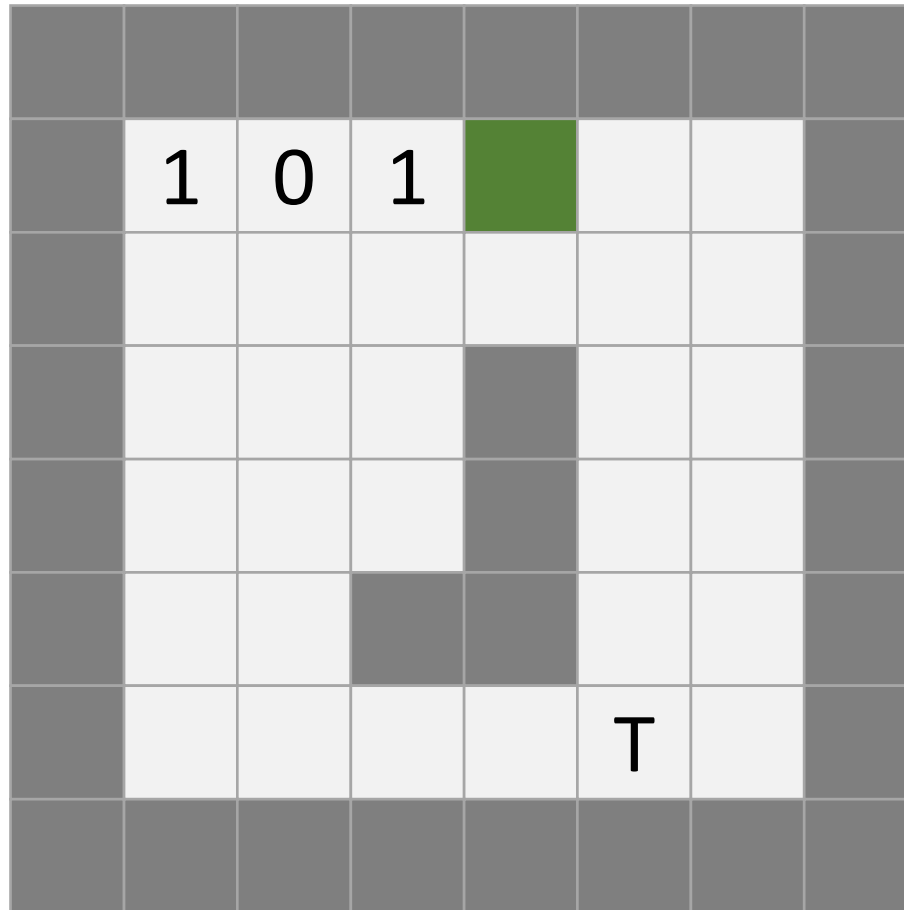
$i = 1$



Slow Version

Path Length

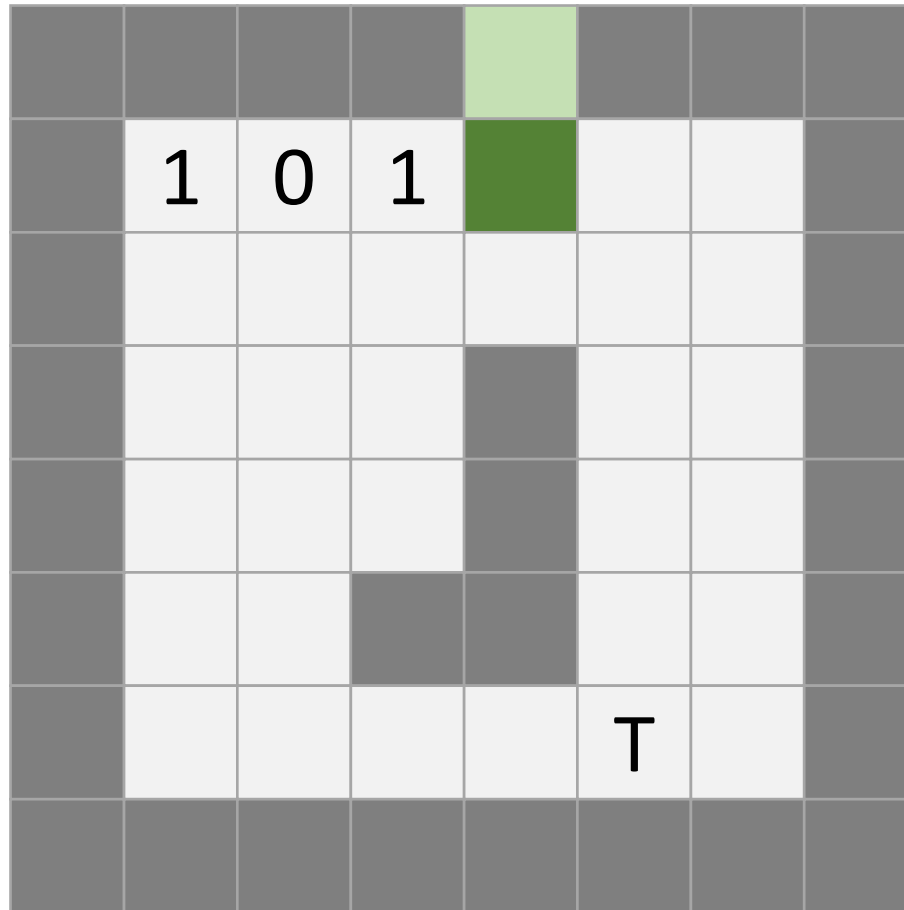
$i = 1$



Slow Version

Path Length

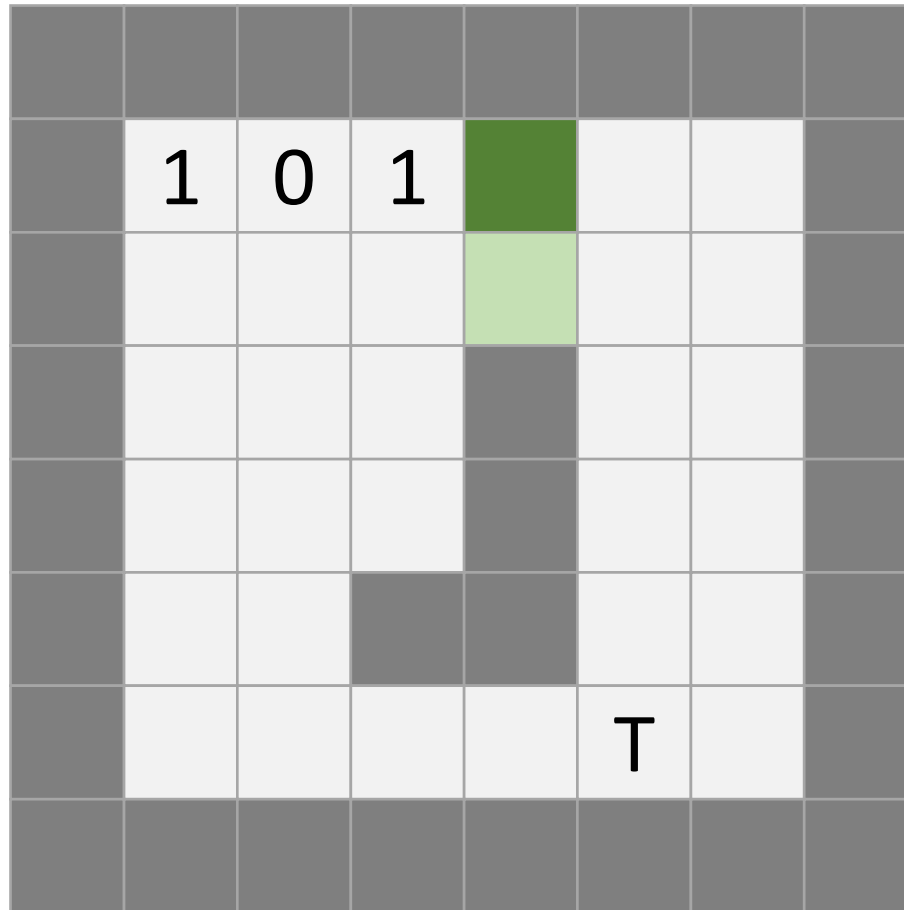
$i = 1$



Slow Version

Path Length

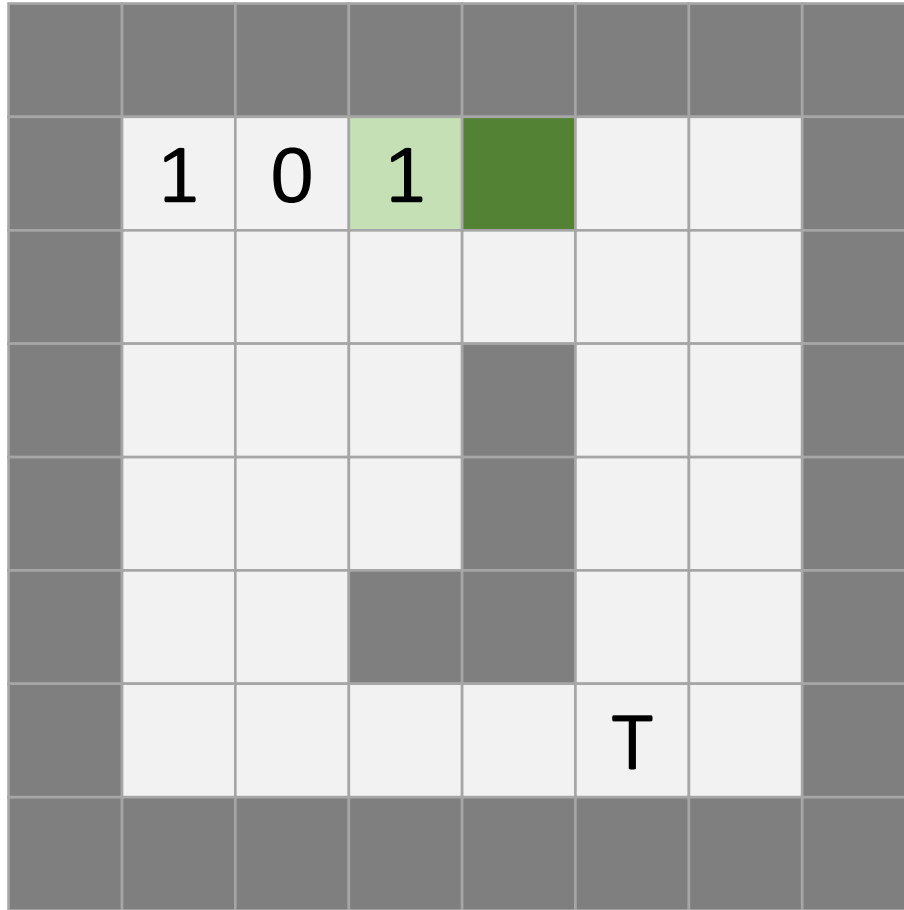
$i = 1$



Slow Version

Path Length

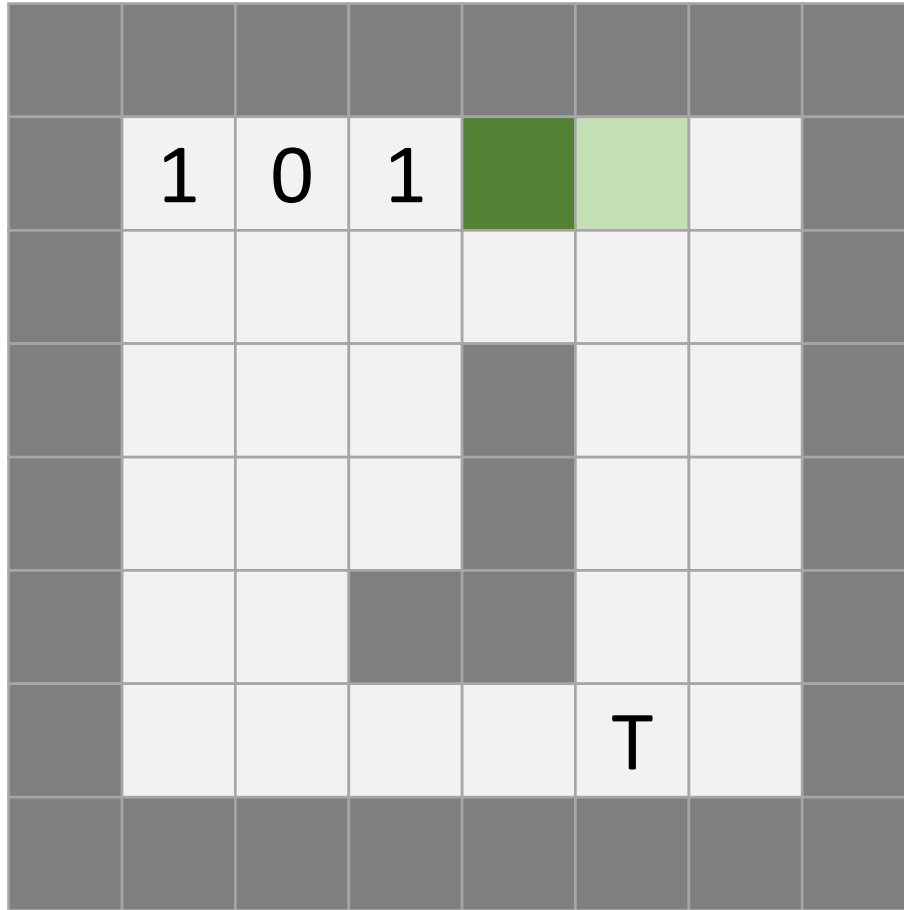
$i = 1$



Slow Version

Path Length

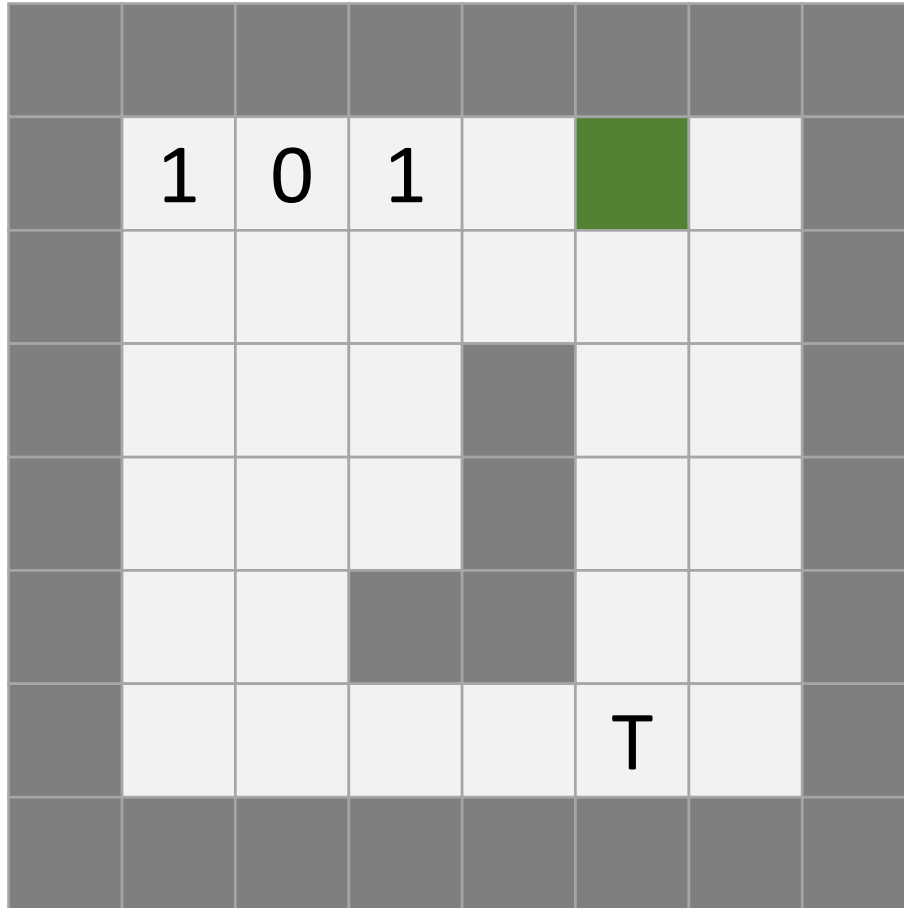
$i = 1$



Slow Version

Path Length

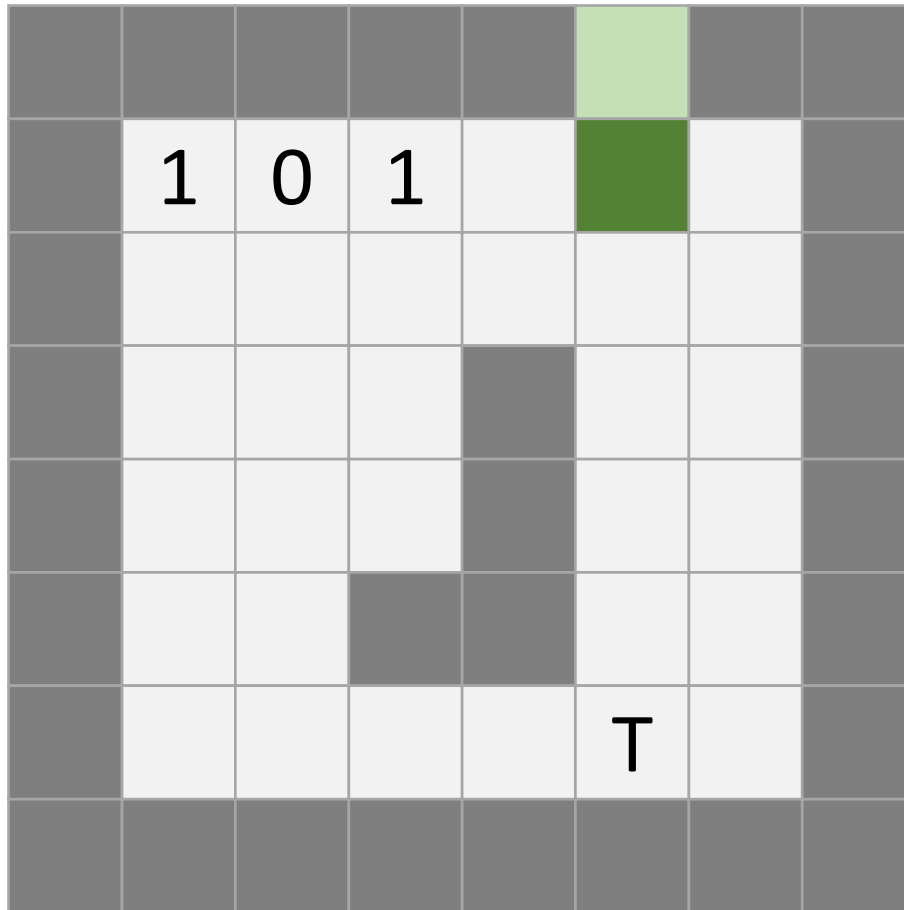
$i = 1$



Slow Version

Path Length

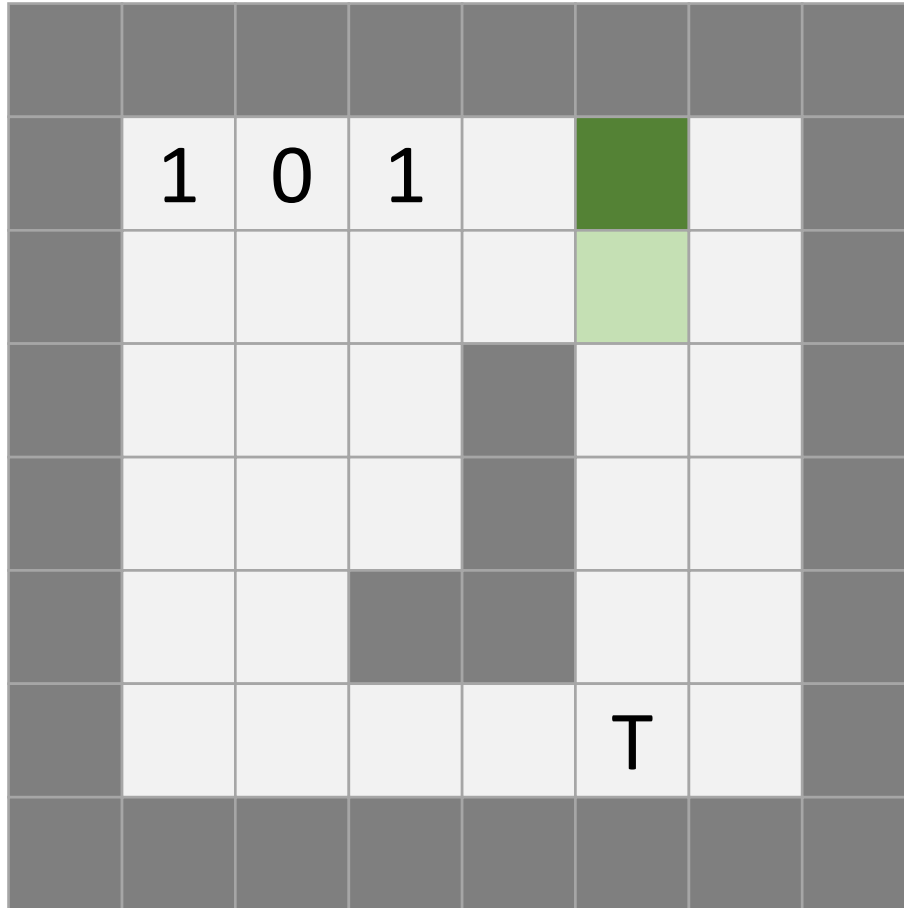
$i = 1$



Slow Version

Path Length

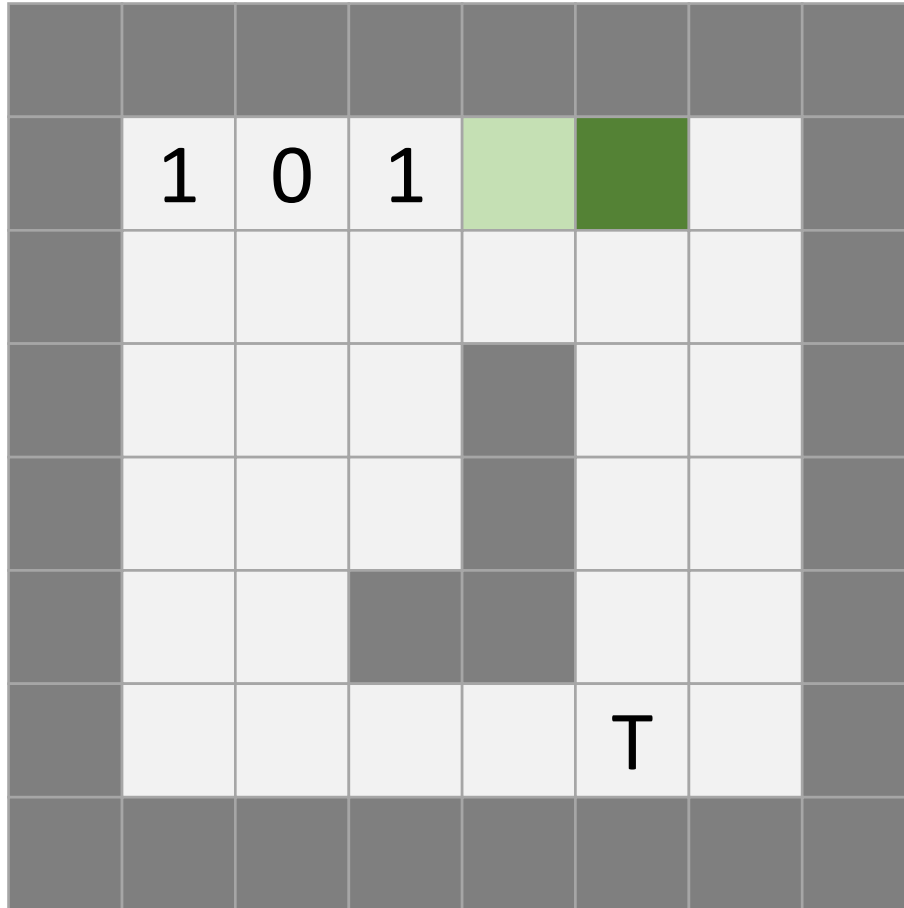
$i = 1$



Slow Version

Path Length

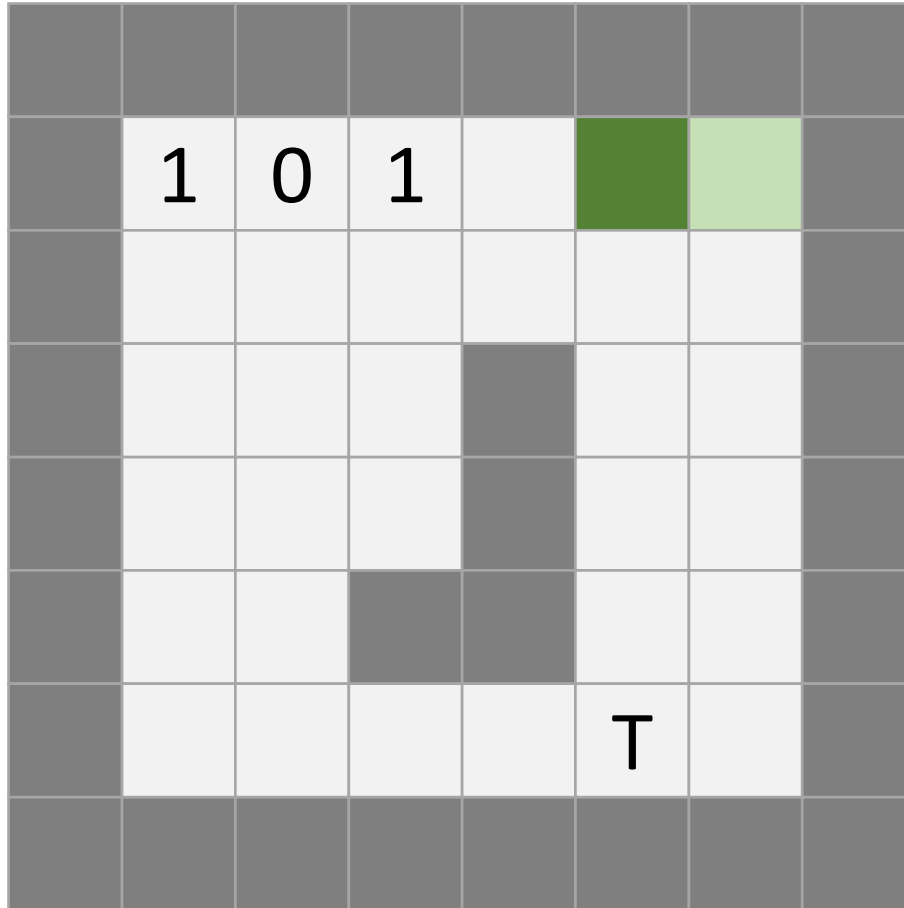
$i = 1$



Slow Version

Path Length

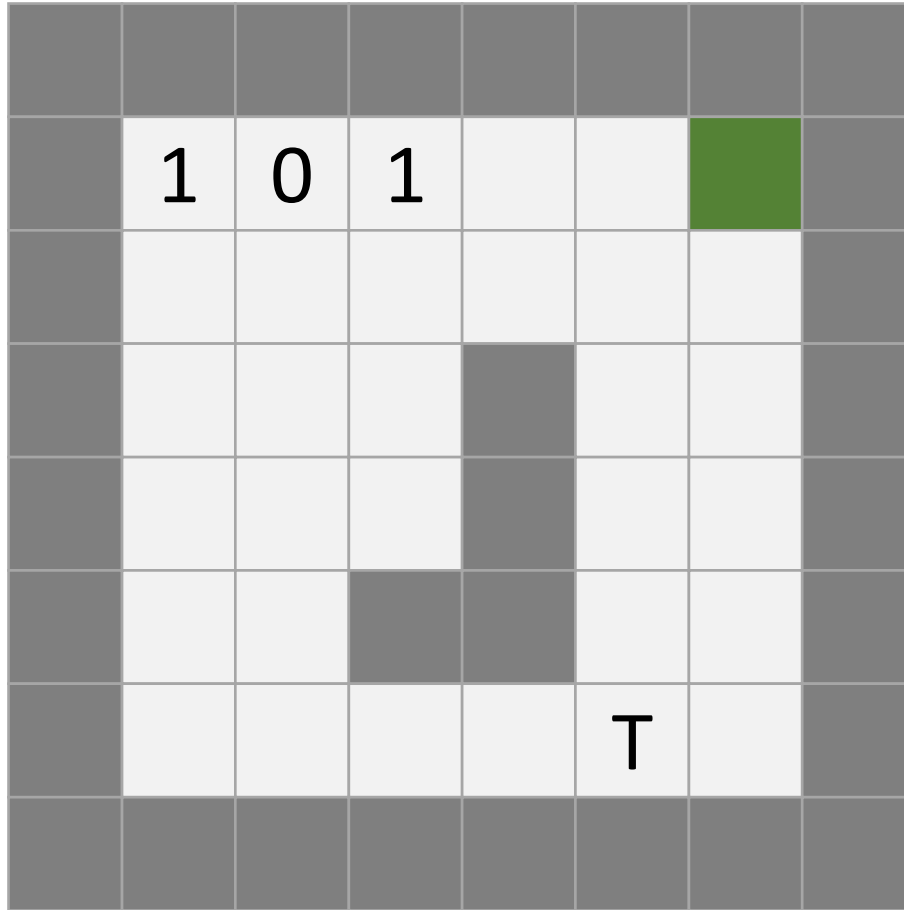
$i = 1$



Slow Version

Path Length

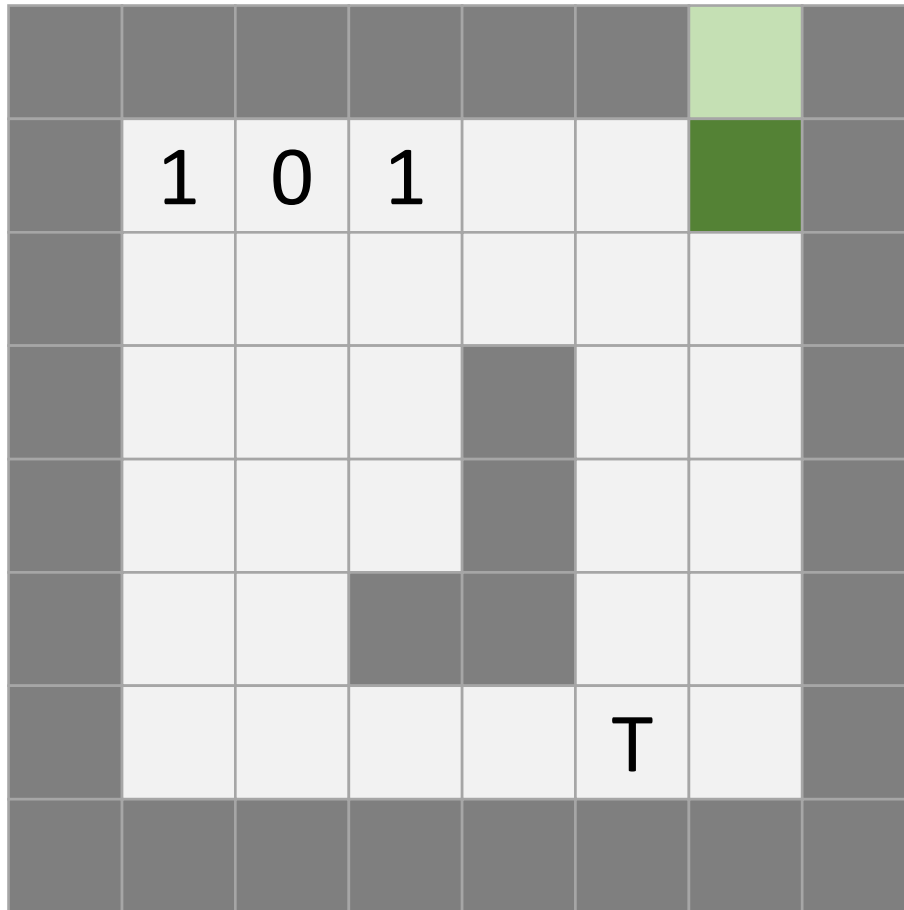
$i = 1$



Slow Version

Path Length

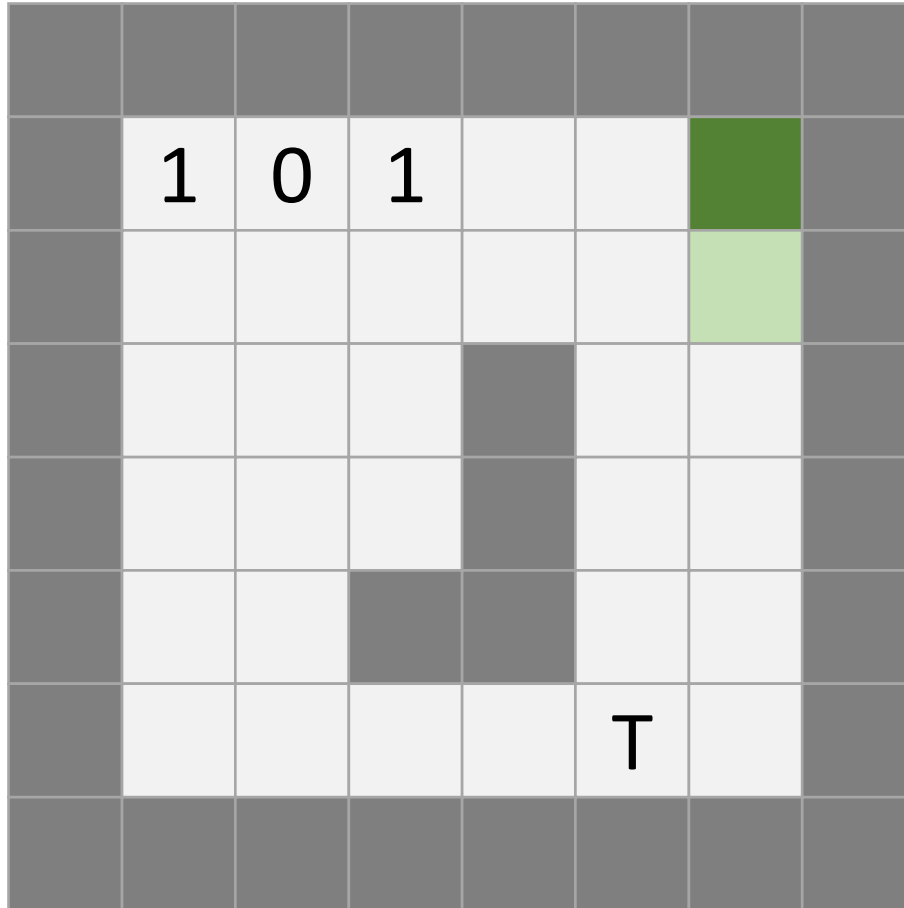
$i = 1$



Slow Version

Path Length

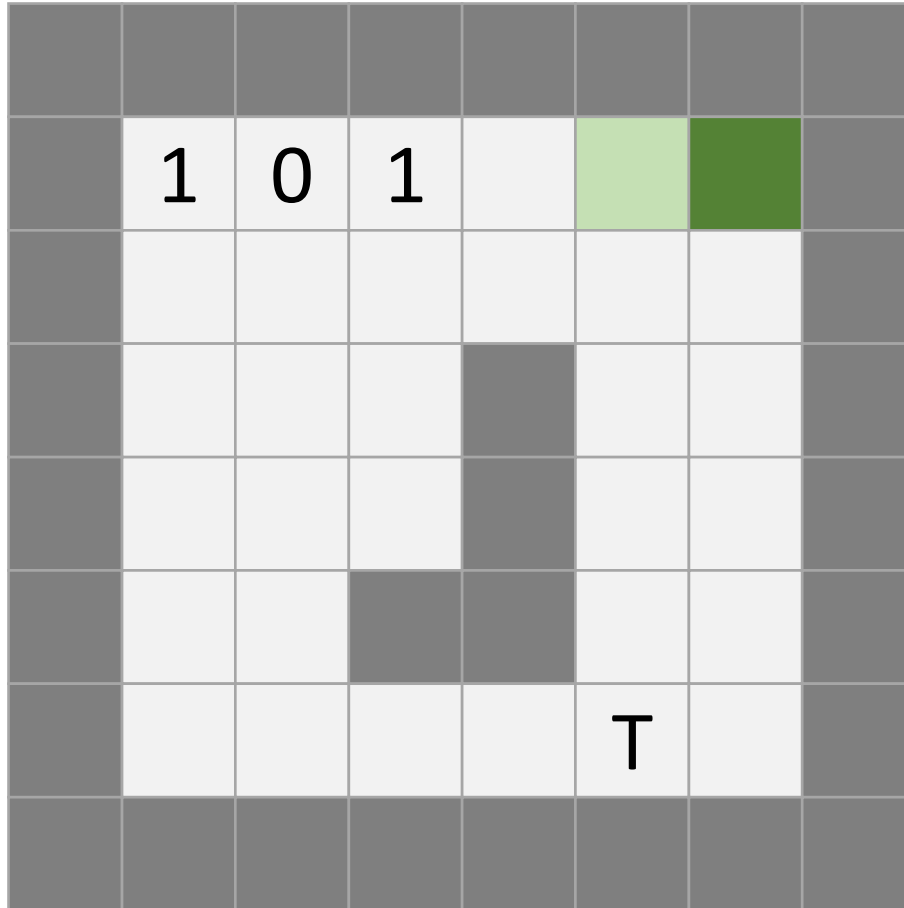
$i = 1$



Slow Version

Path Length

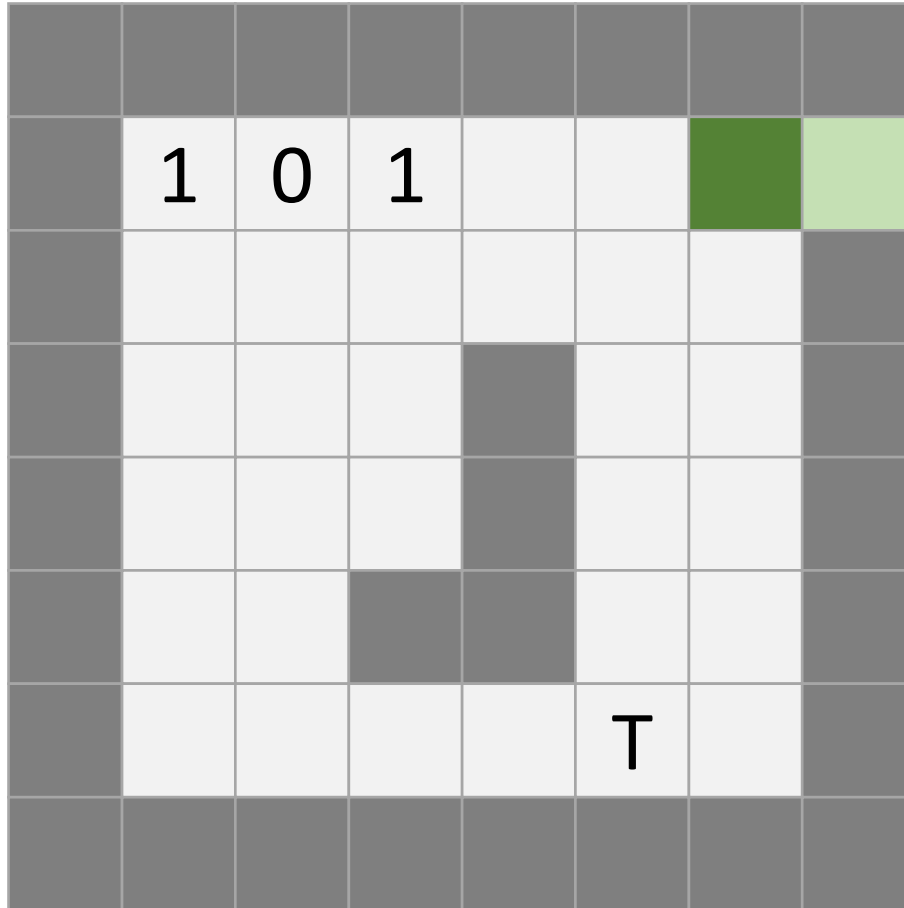
$i = 1$



Slow Version

Path Length

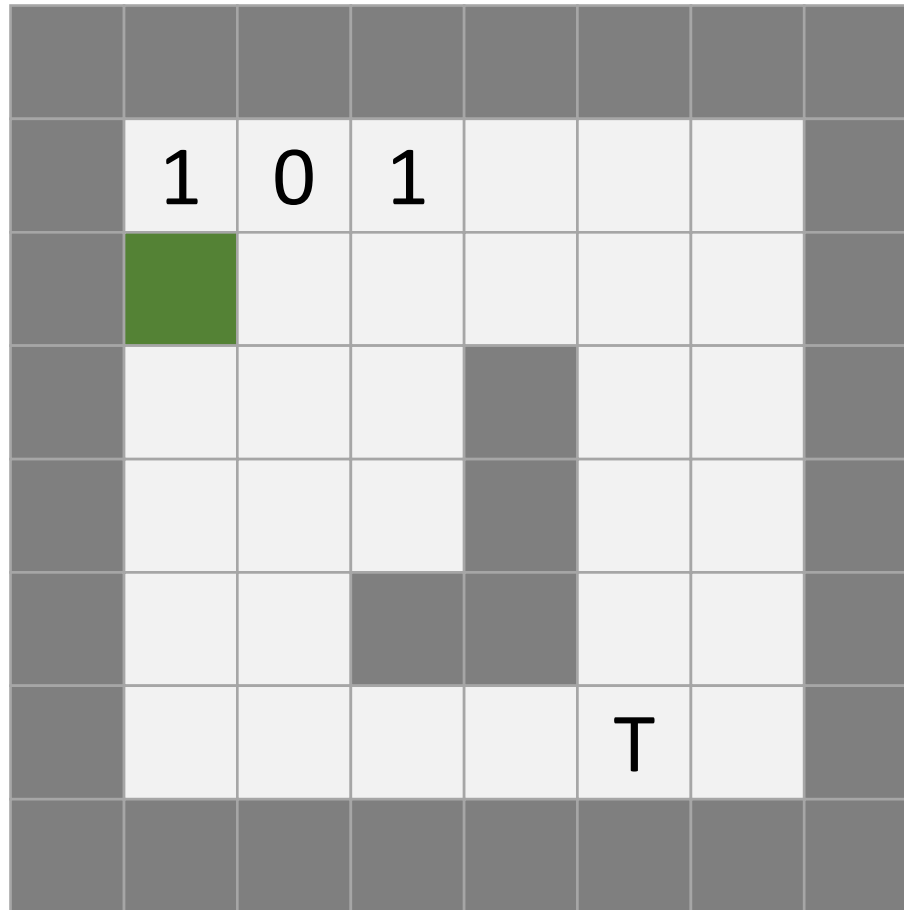
$i = 1$



Slow Version

Path Length

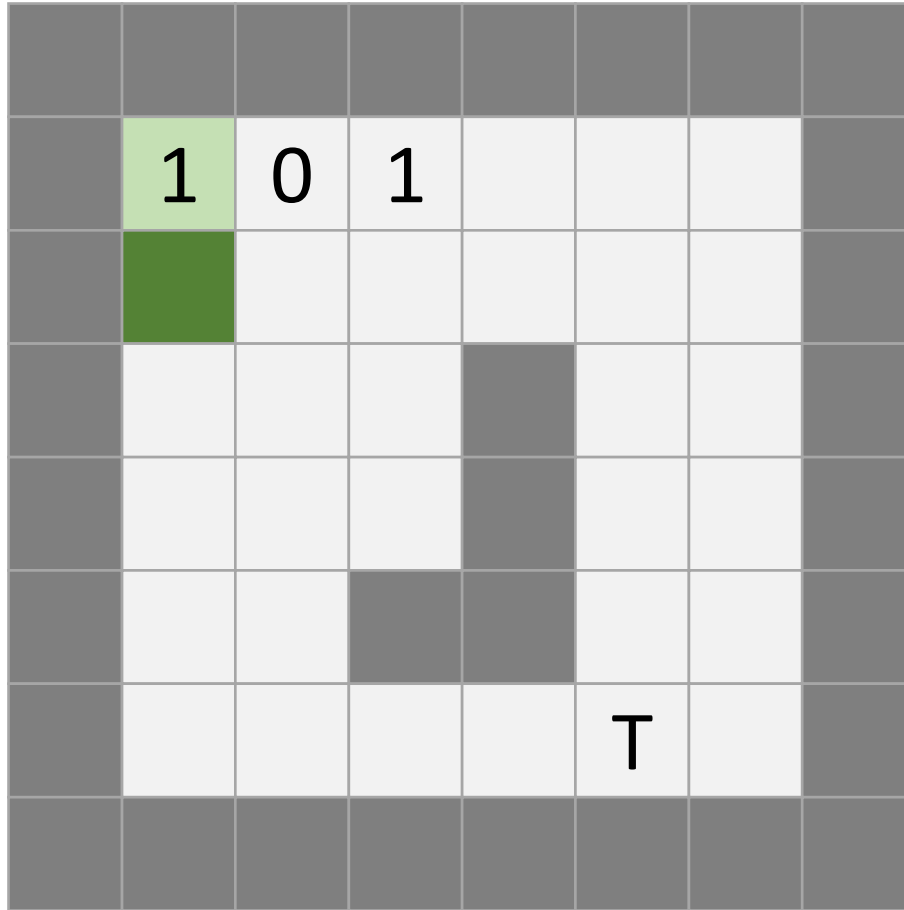
$i = 1$



Slow Version

Path Length

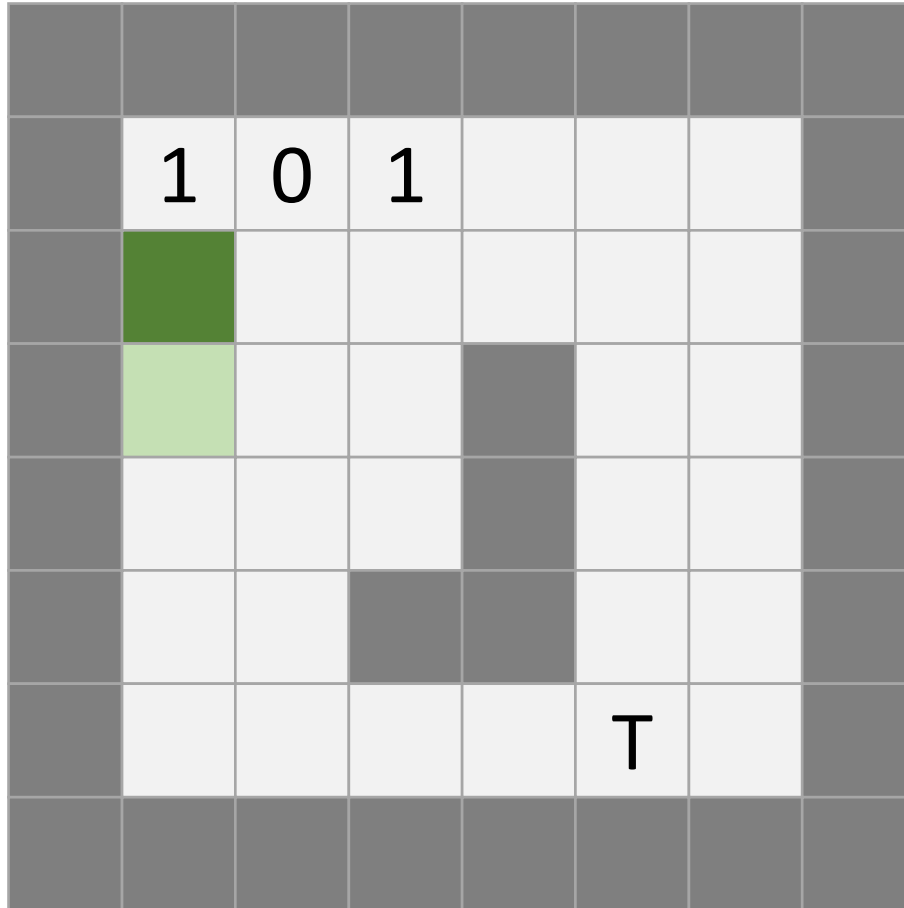
$i = 1$



Slow Version

Path Length

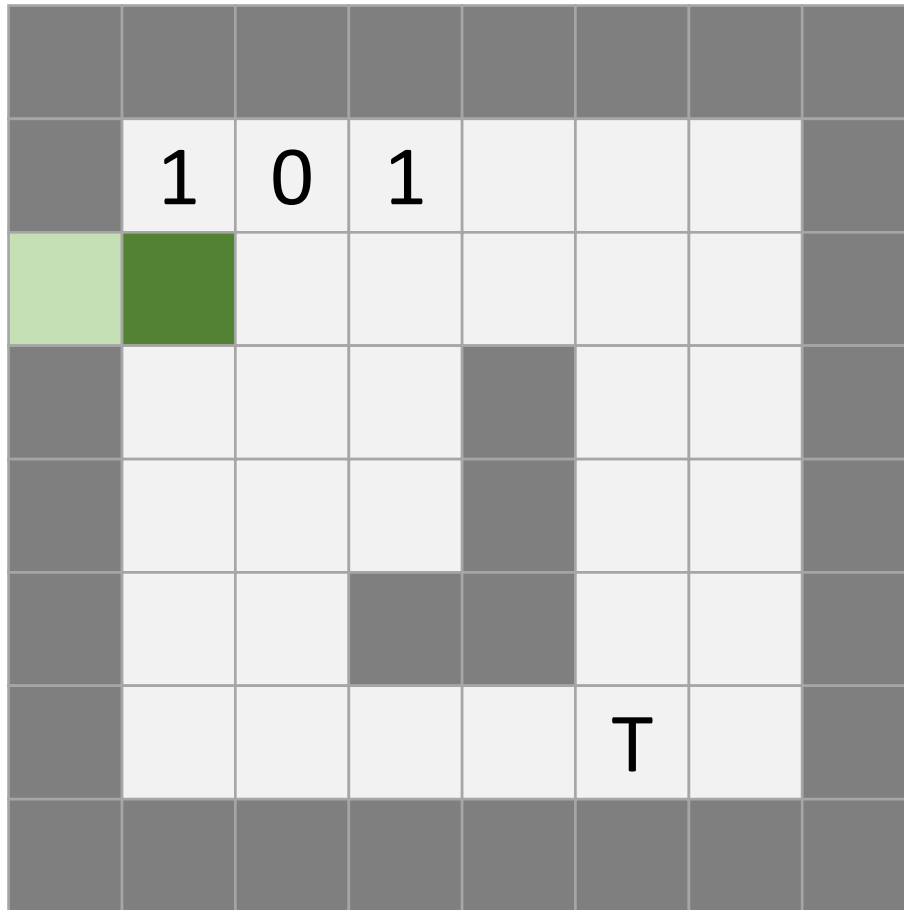
$i = 1$



Slow Version

Path Length

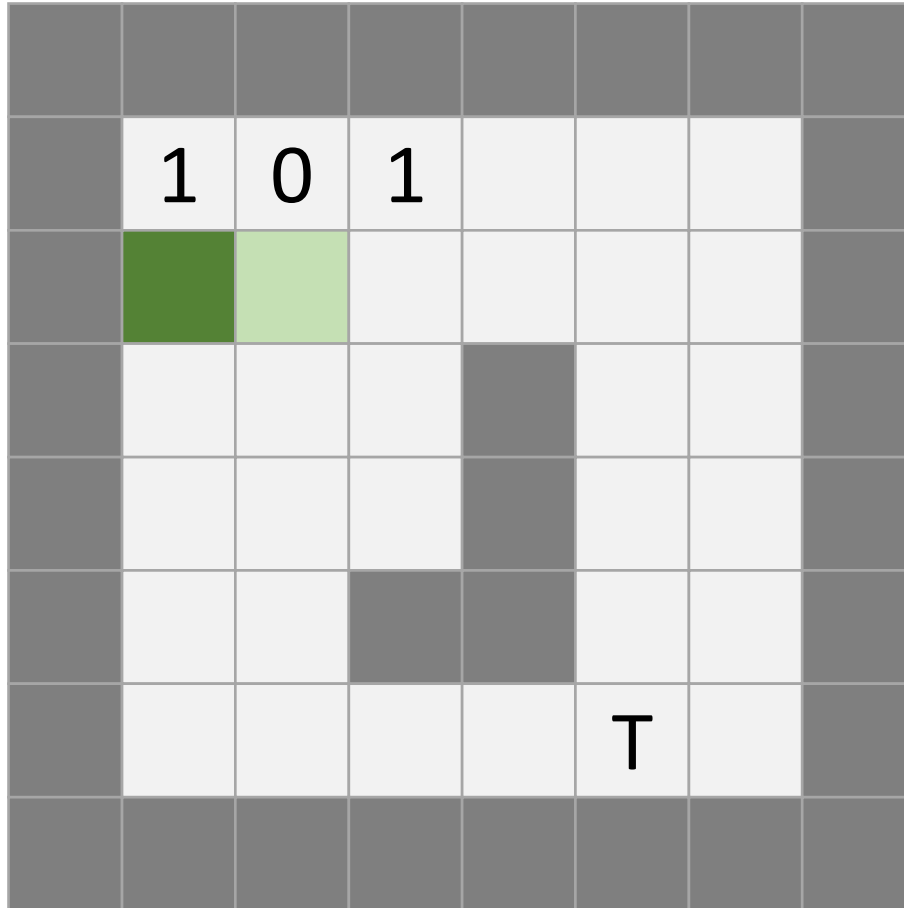
$i = 1$



Slow Version

Path Length

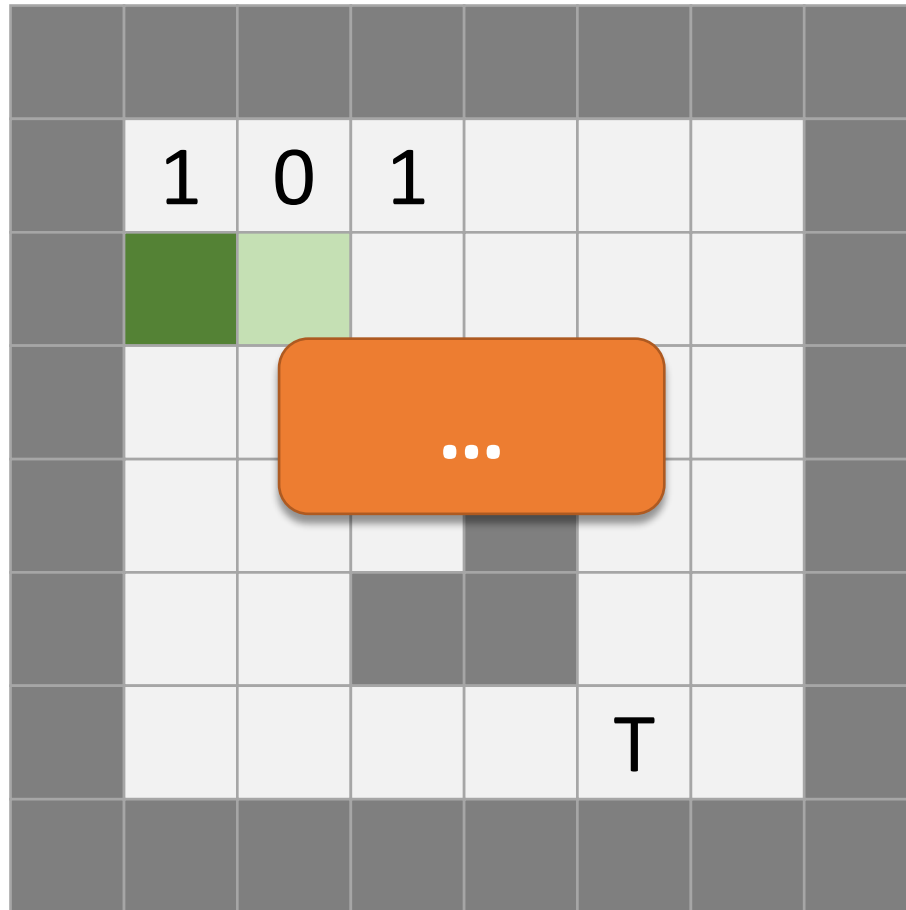
$i = 1$



Slow Version

Path Length

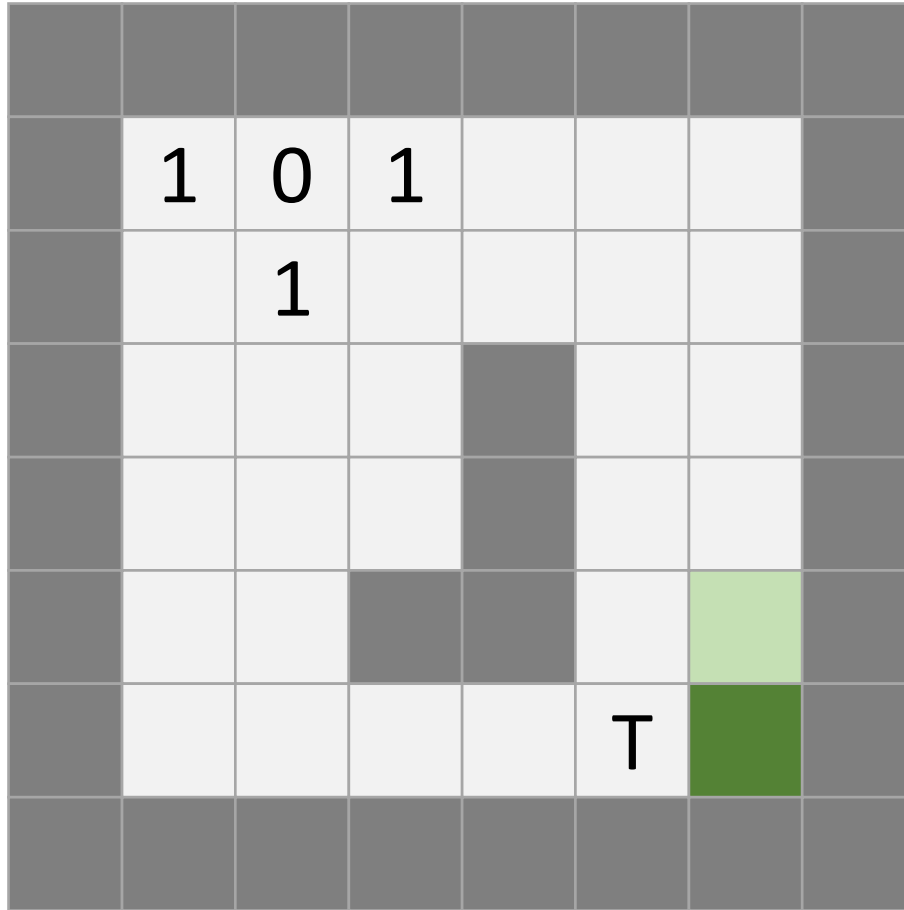
$i = 1$



Slow Version

Path Length

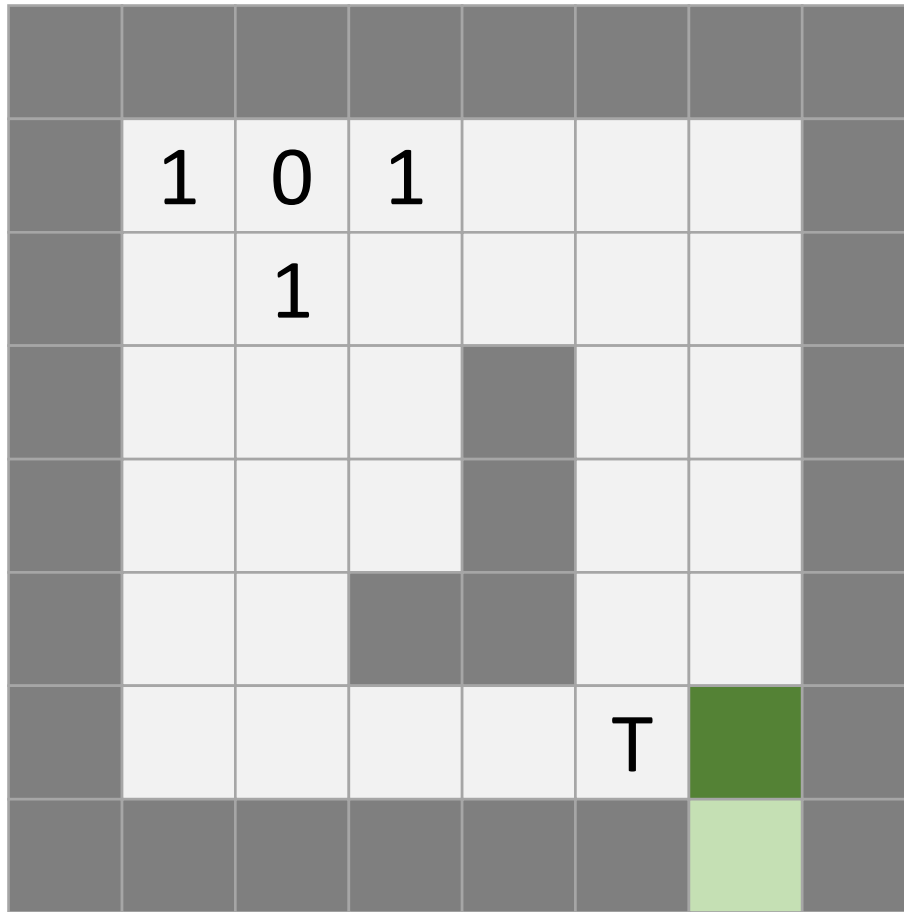
$i = 1$



Slow Version

Path Length

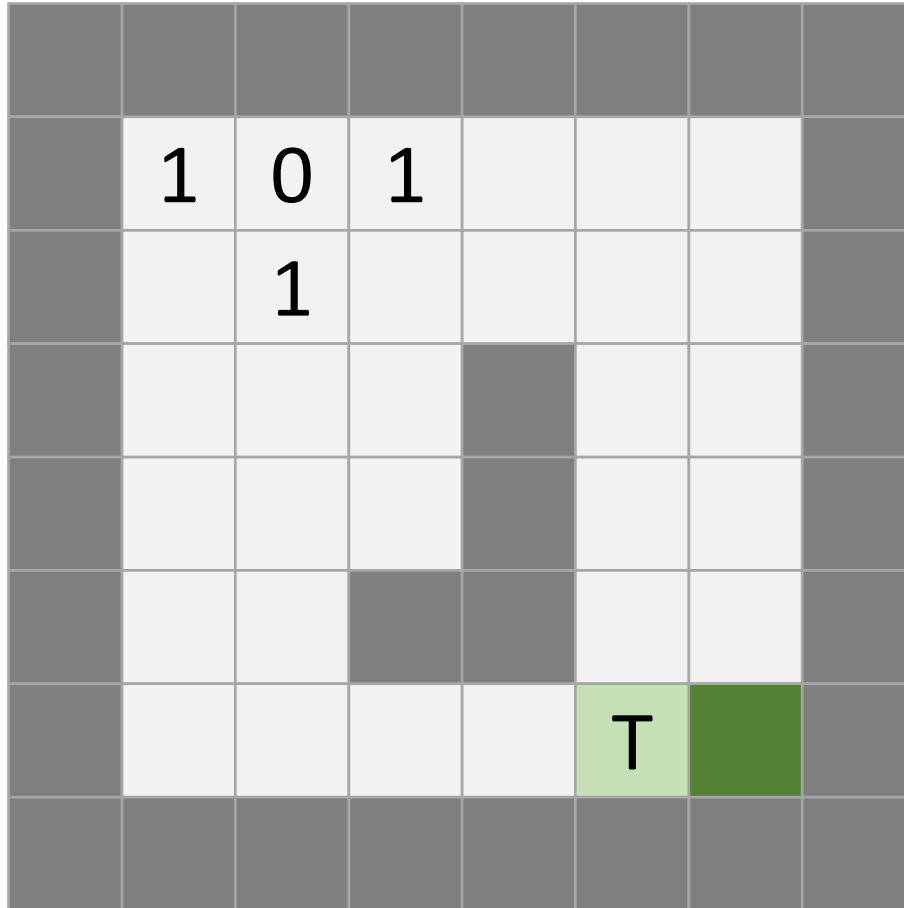
$i = 1$



Slow Version

Path Length

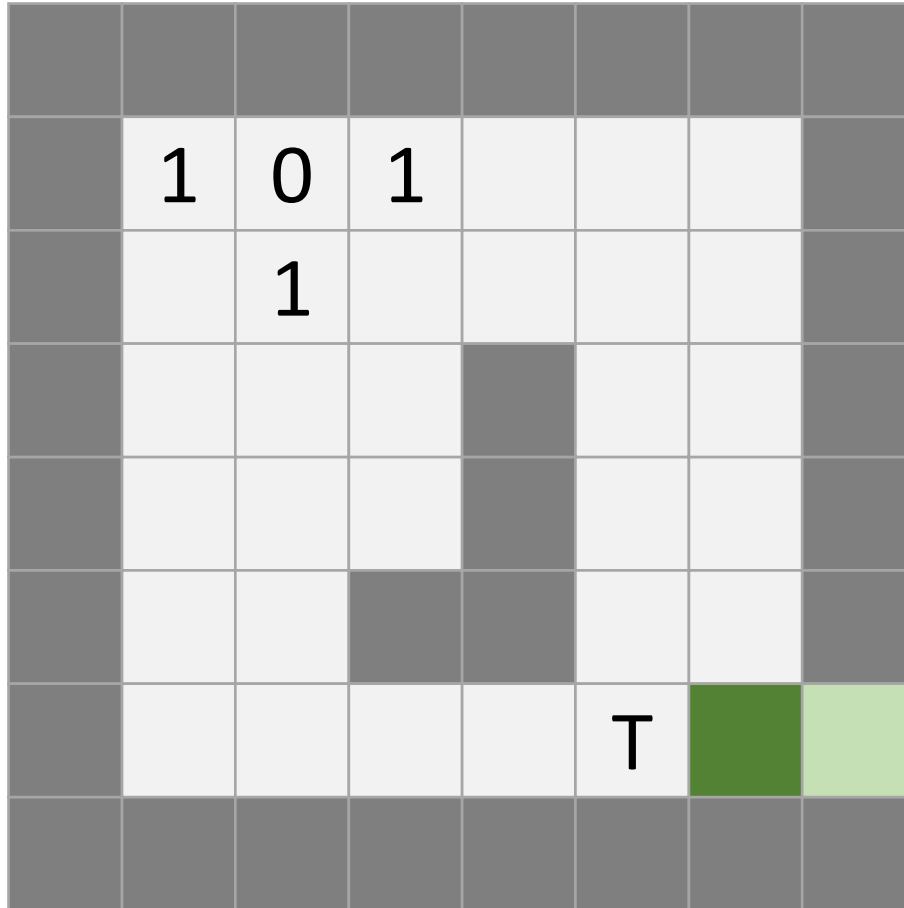
$i = 1$



Slow Version

Path Length

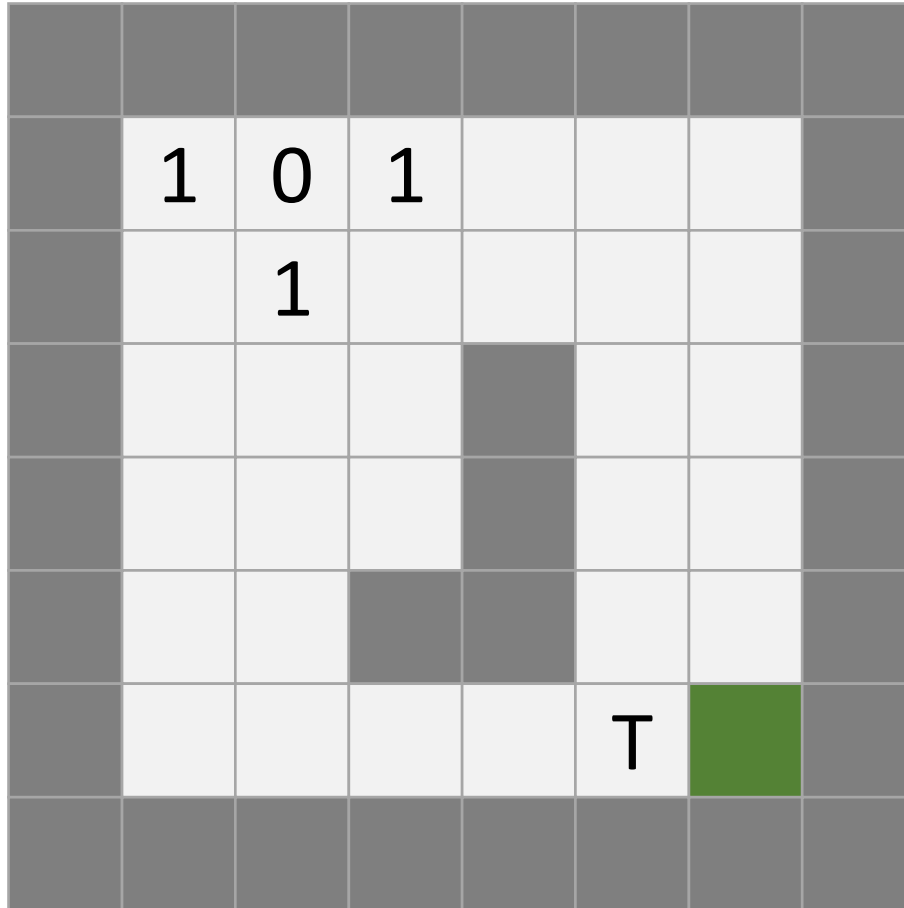
$i = 1$



Slow Version

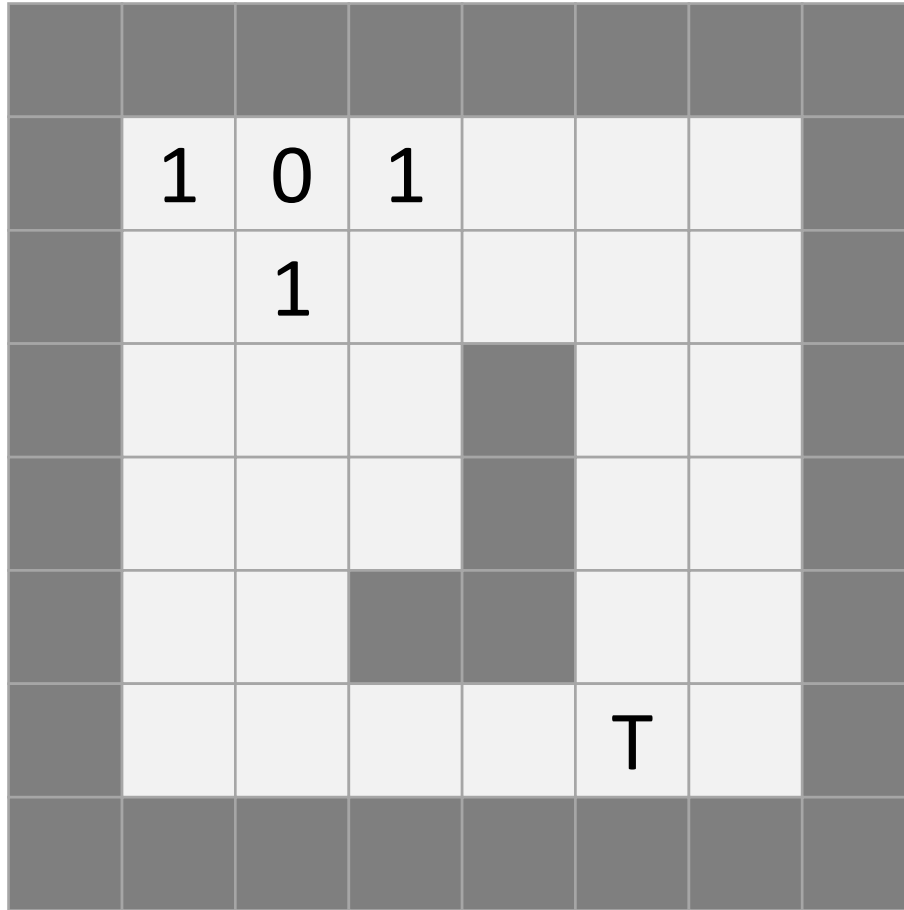
Path Length

$i = 1$



Slow Version

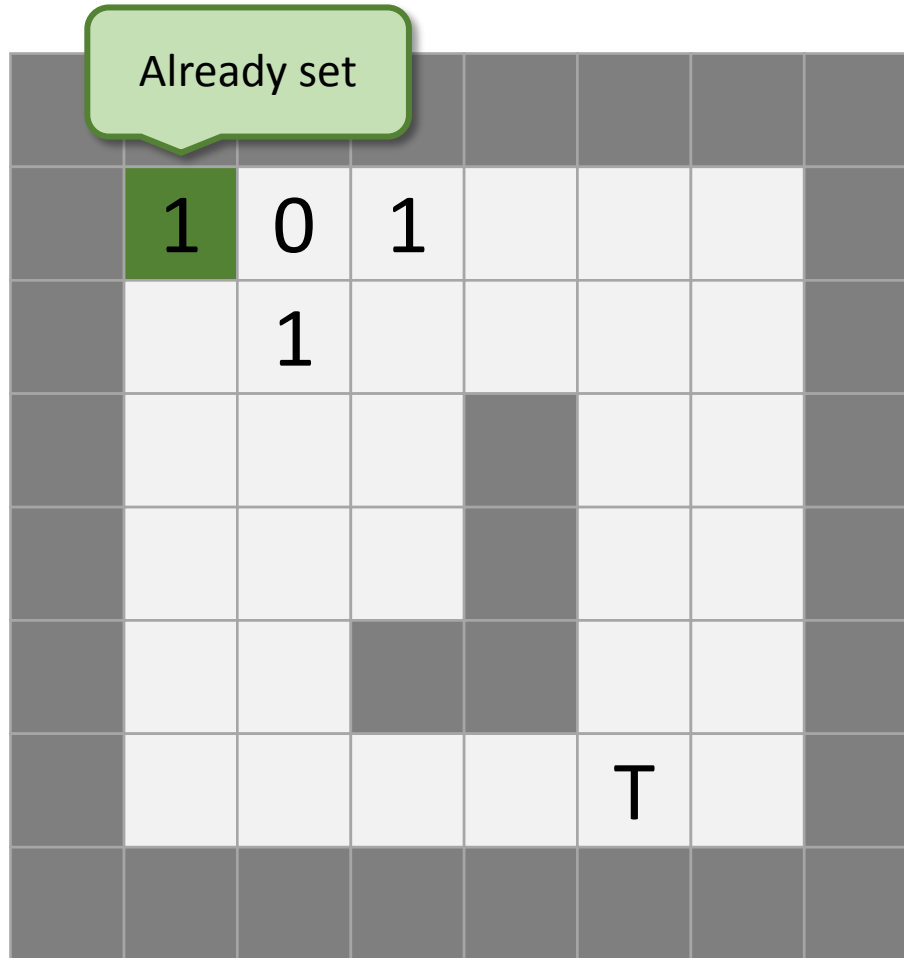
Path Length
 $i = 2$



Slow Version

Path Length

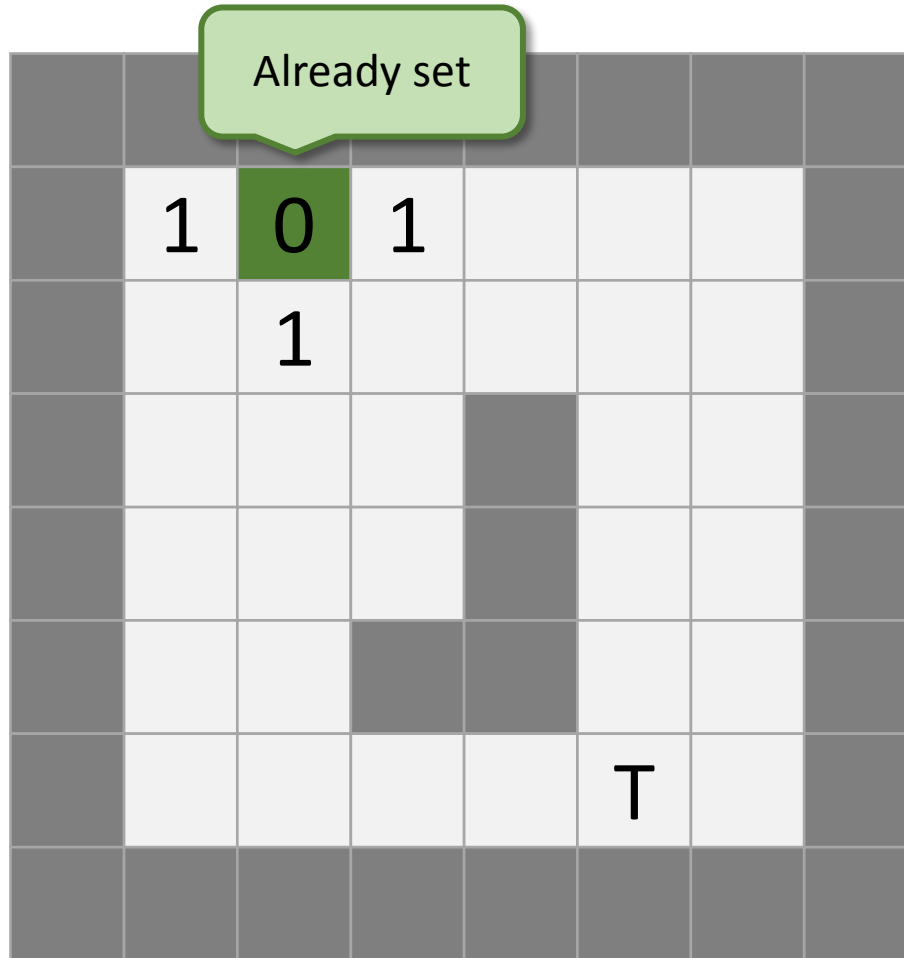
$i = 2$



Slow Version

Path Length

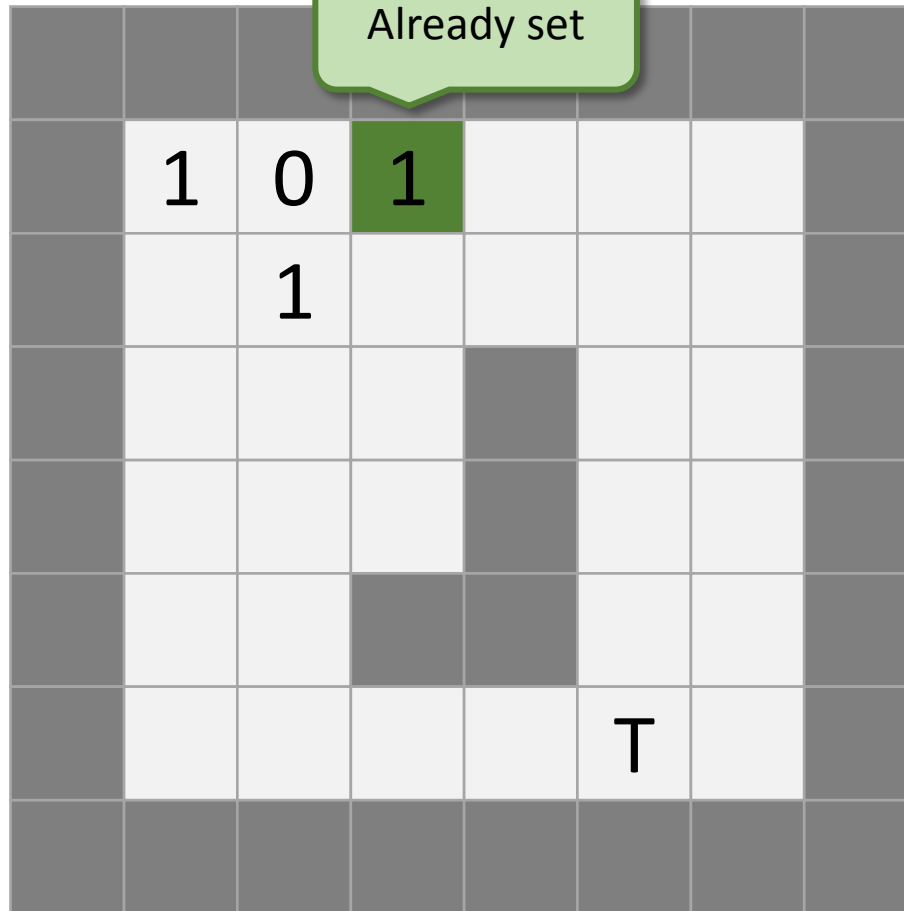
$i = 2$



Slow Version

Path Length

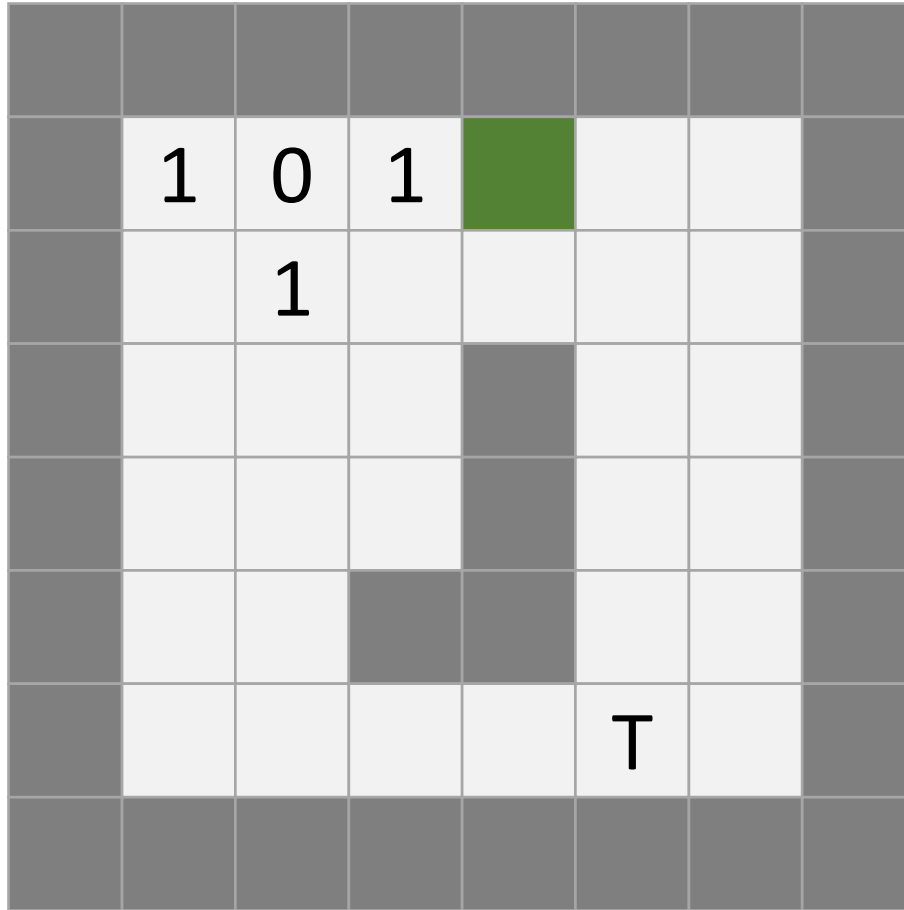
$i = 2$



Slow Version

Path Length

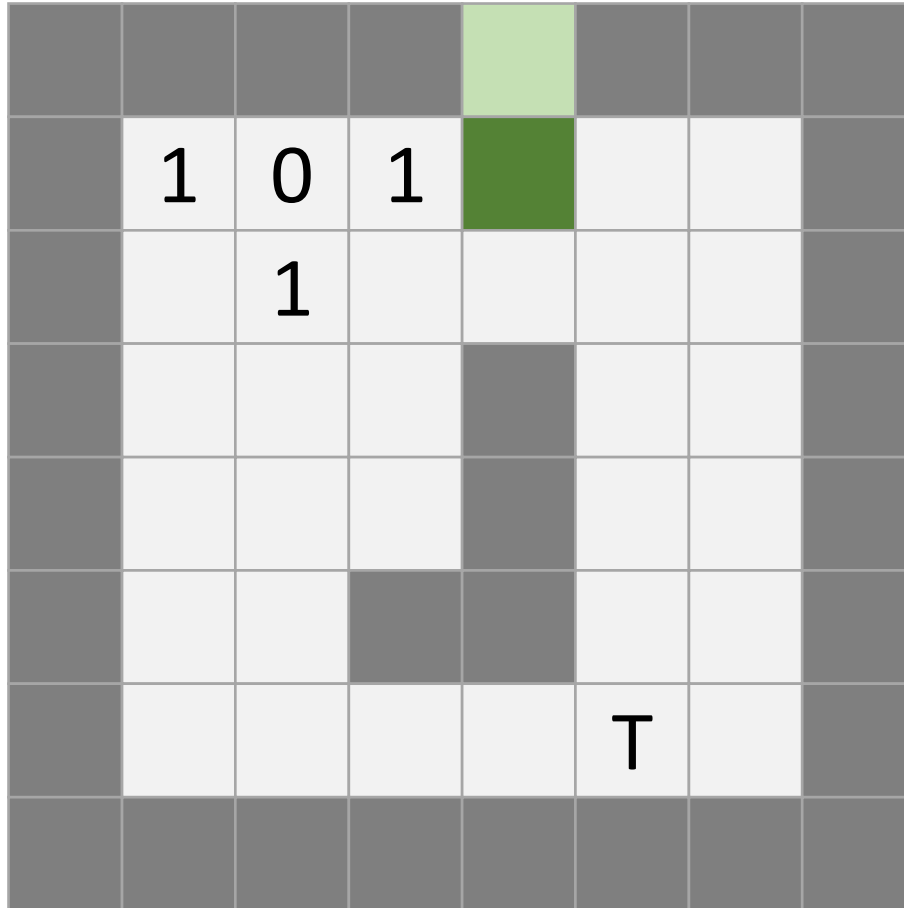
$i = 2$



Slow Version

Path Length

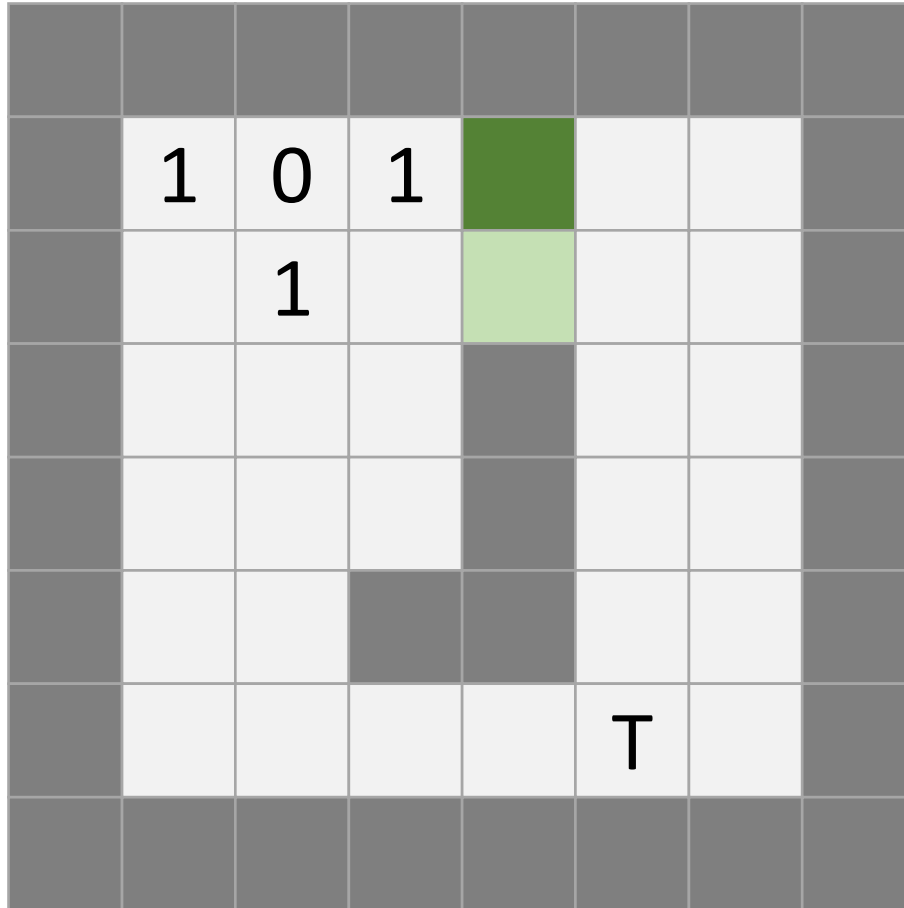
$i = 2$



Slow Version

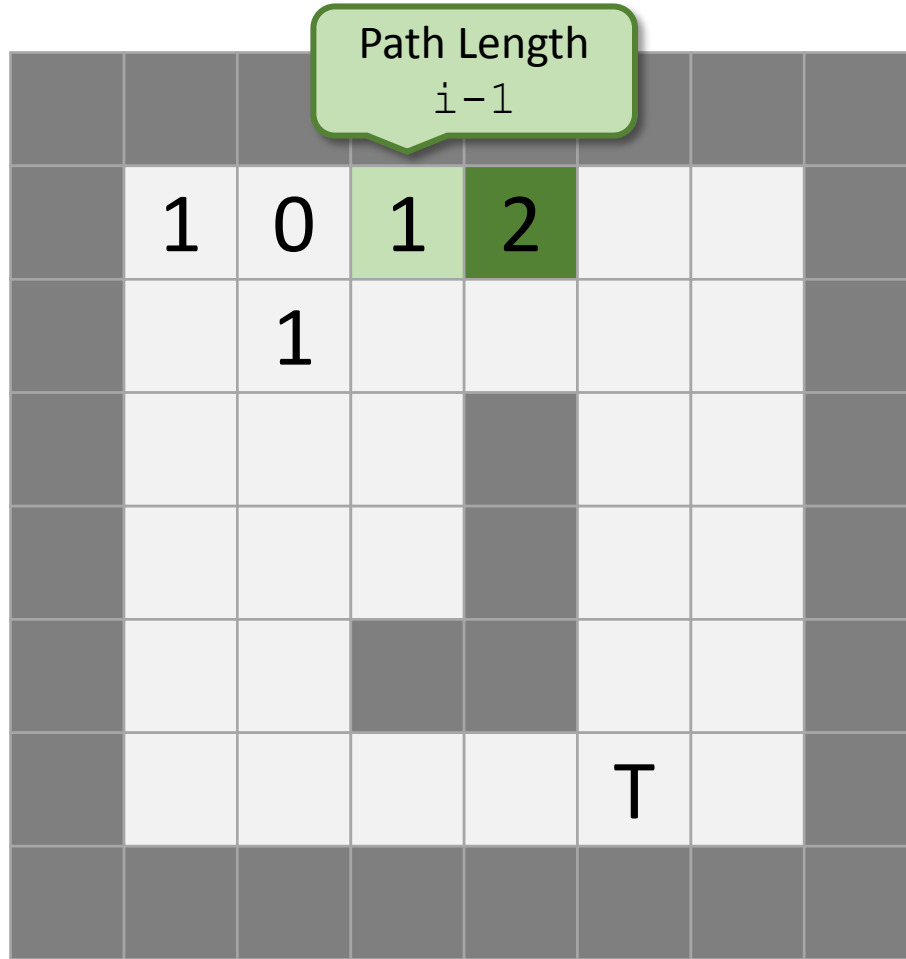
Path Length

$i = 2$



Slow Version

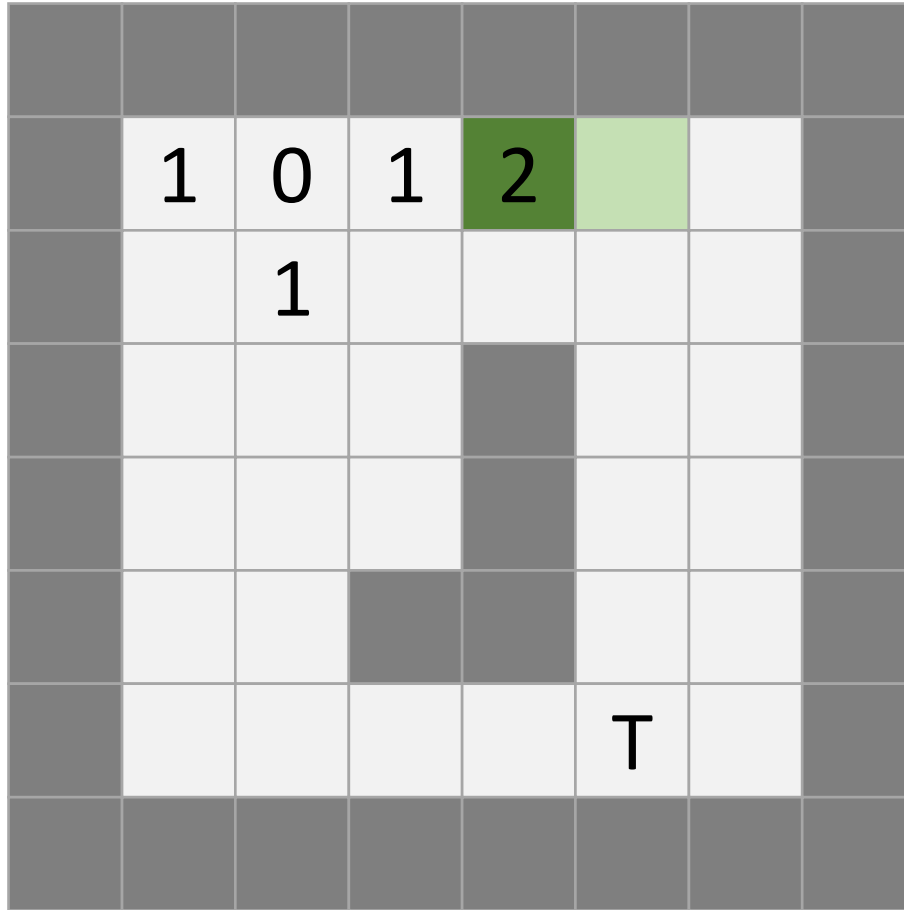
Path Length
 $i = 2$



Slow Version

Path Length

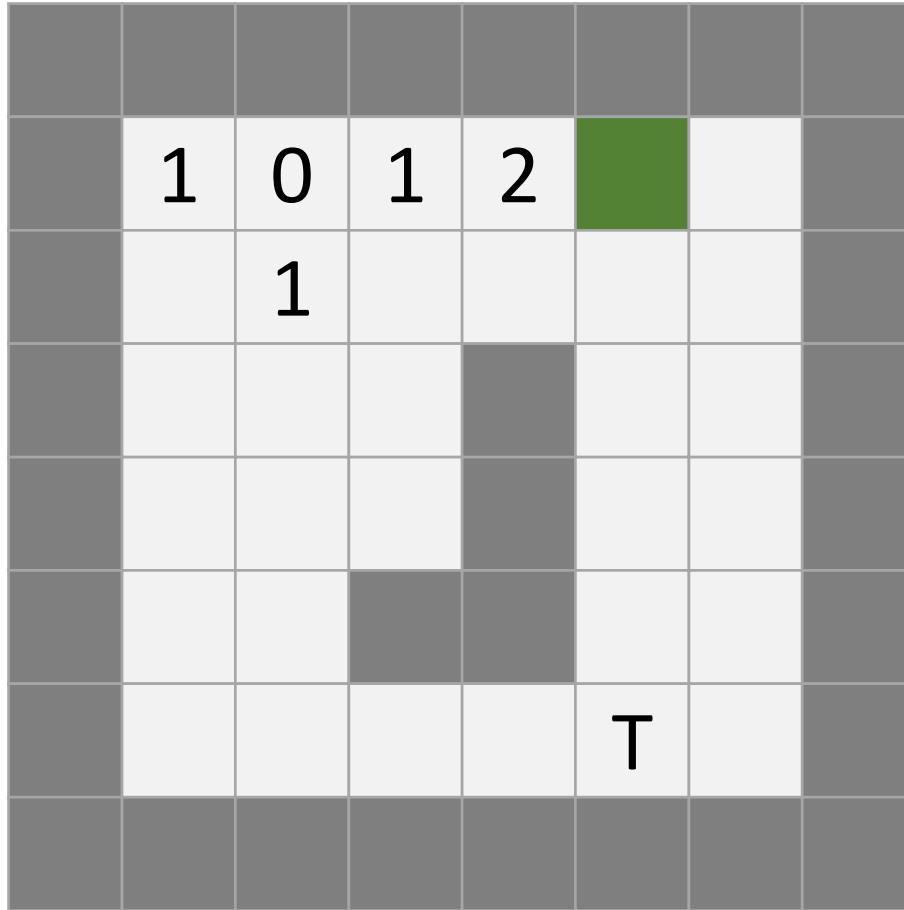
$i = 2$



Slow Version

Path Length

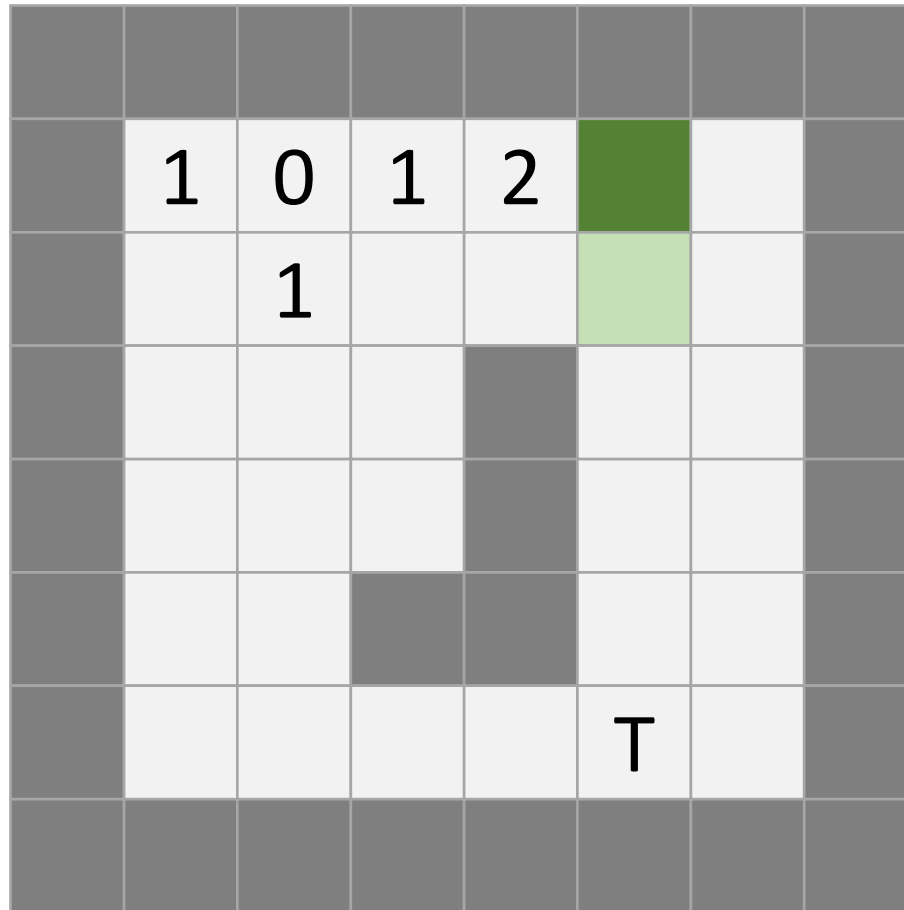
$i = 2$



Slow Version

Path Length

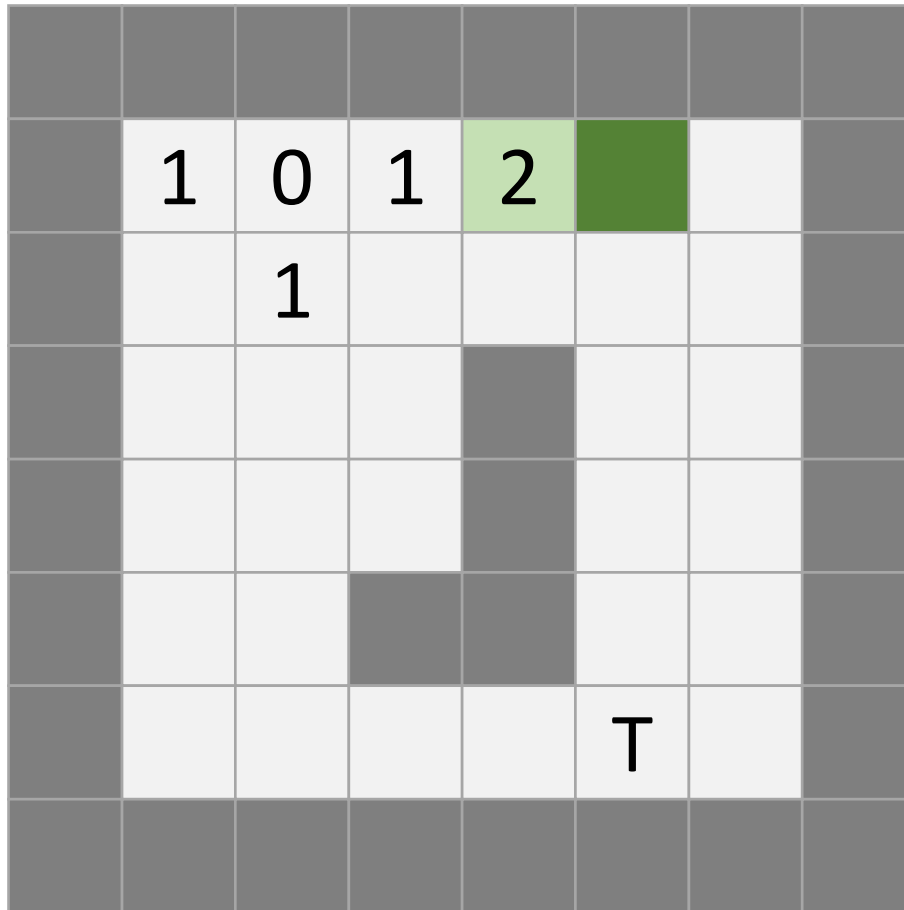
$i = 2$



Slow Version

Path Length

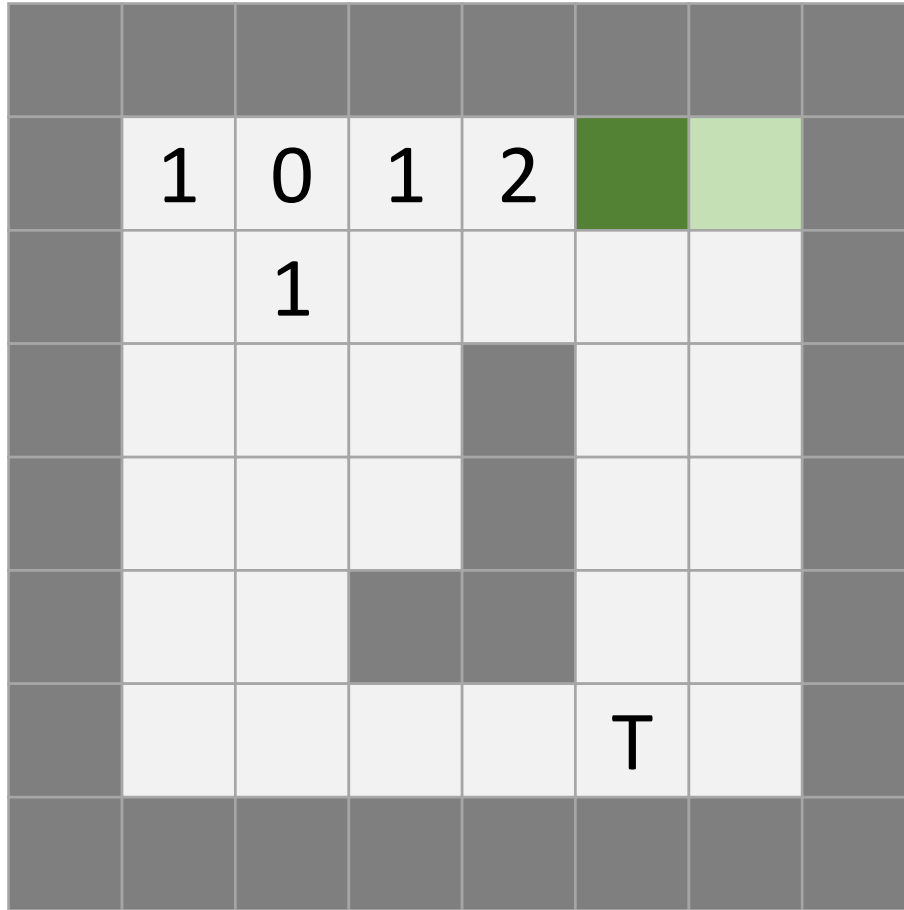
$i = 2$



Slow Version

Path Length

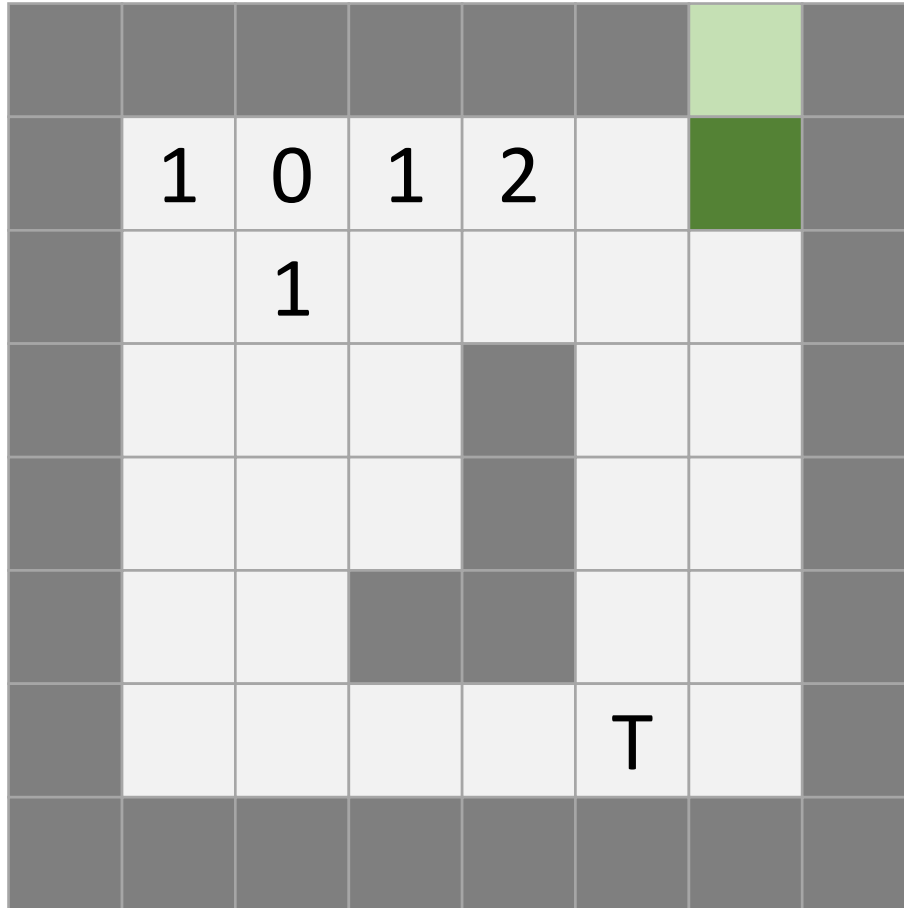
$i = 2$



Slow Version

Path Length

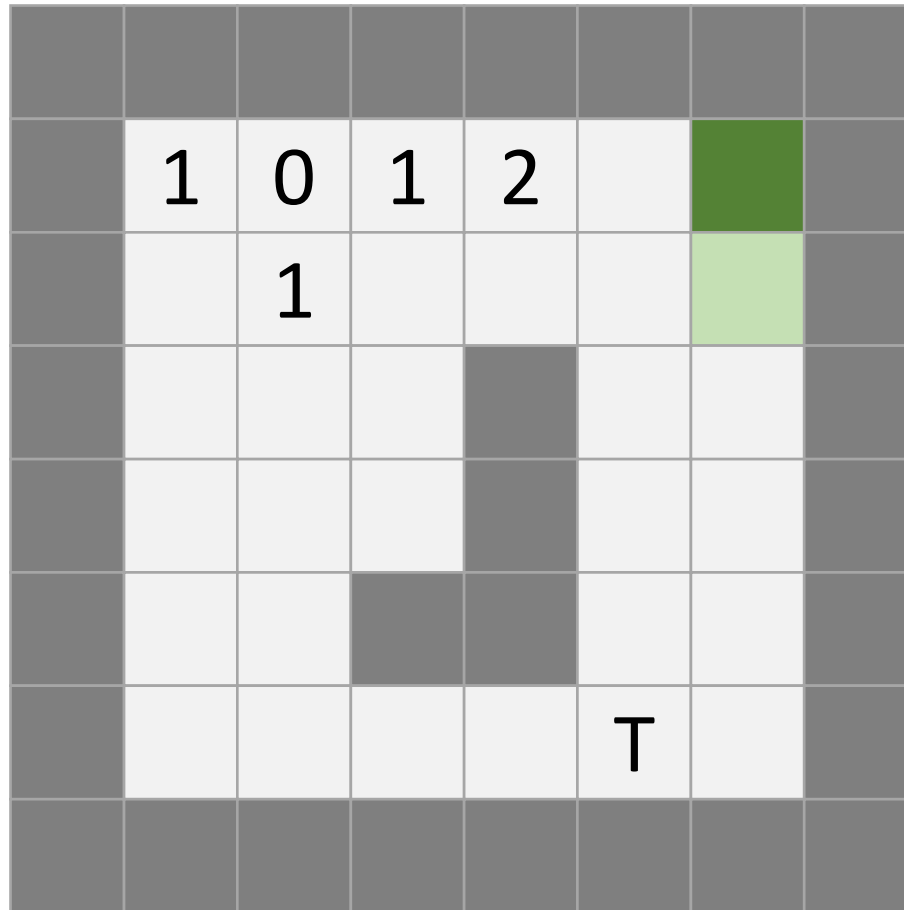
$i = 2$



Slow Version

Path Length

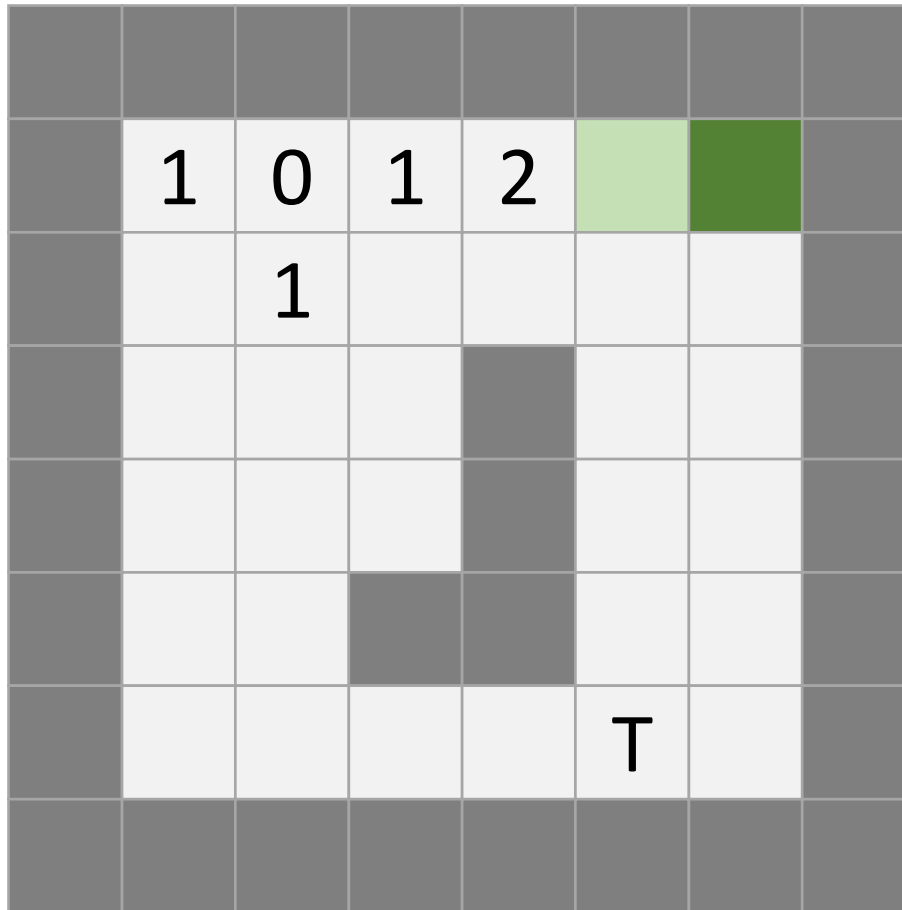
$i = 2$



Slow Version

Path Length

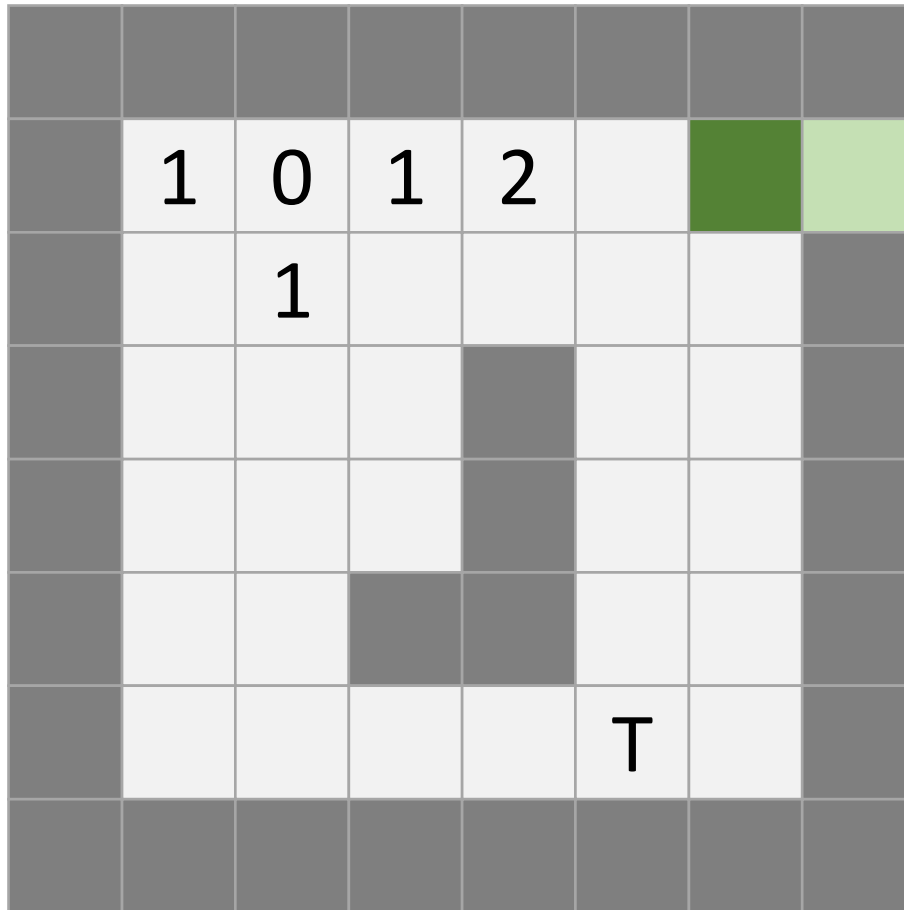
$i = 2$



Slow Version

Path Length

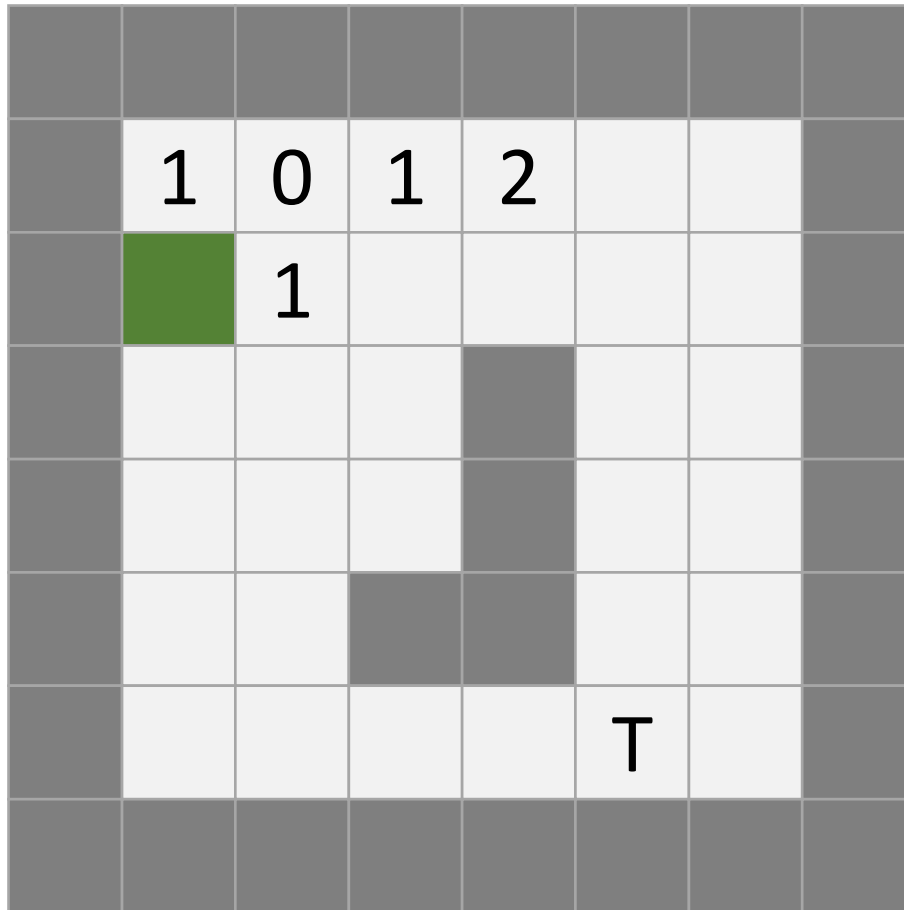
$i = 2$



Slow Version

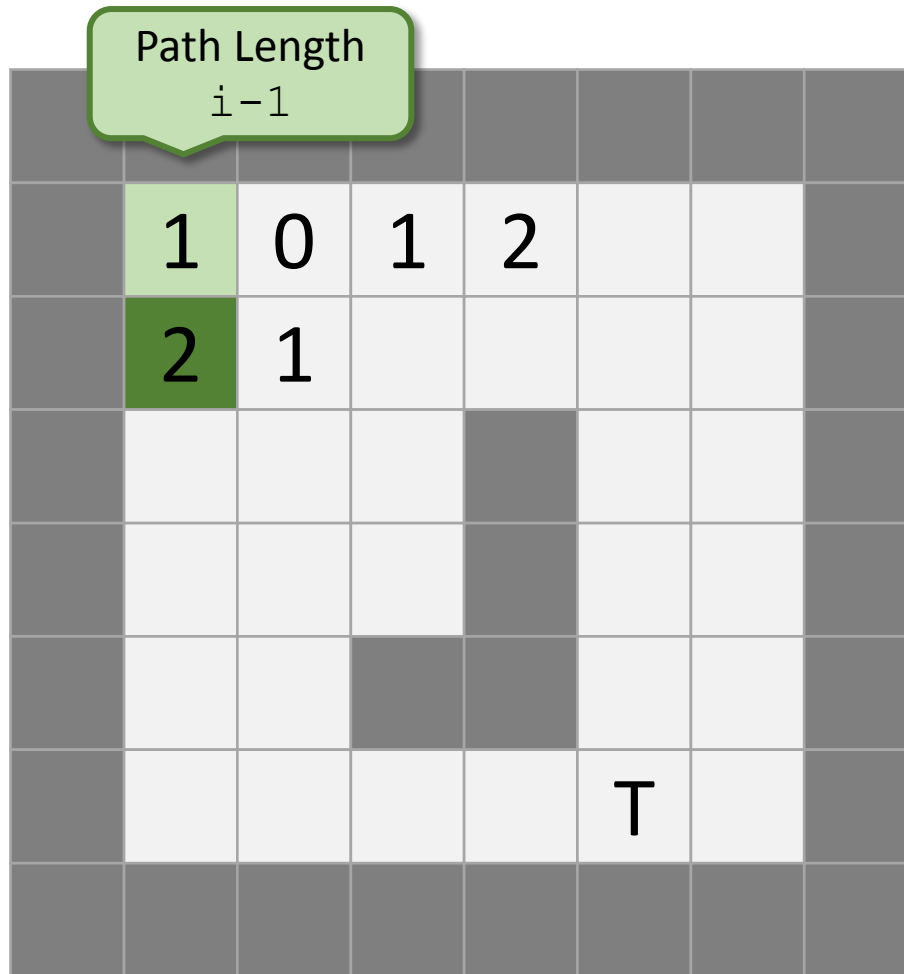
Path Length

$i = 2$



Slow Version

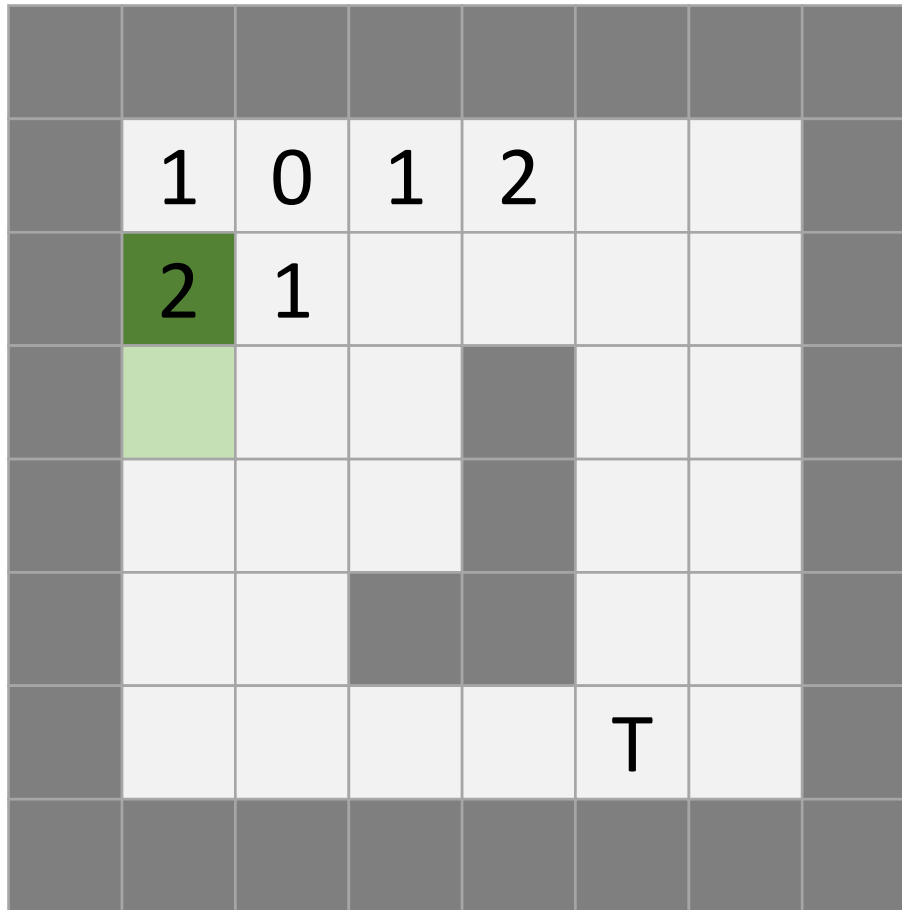
Path Length
 $i = 2$



Slow Version

Path Length

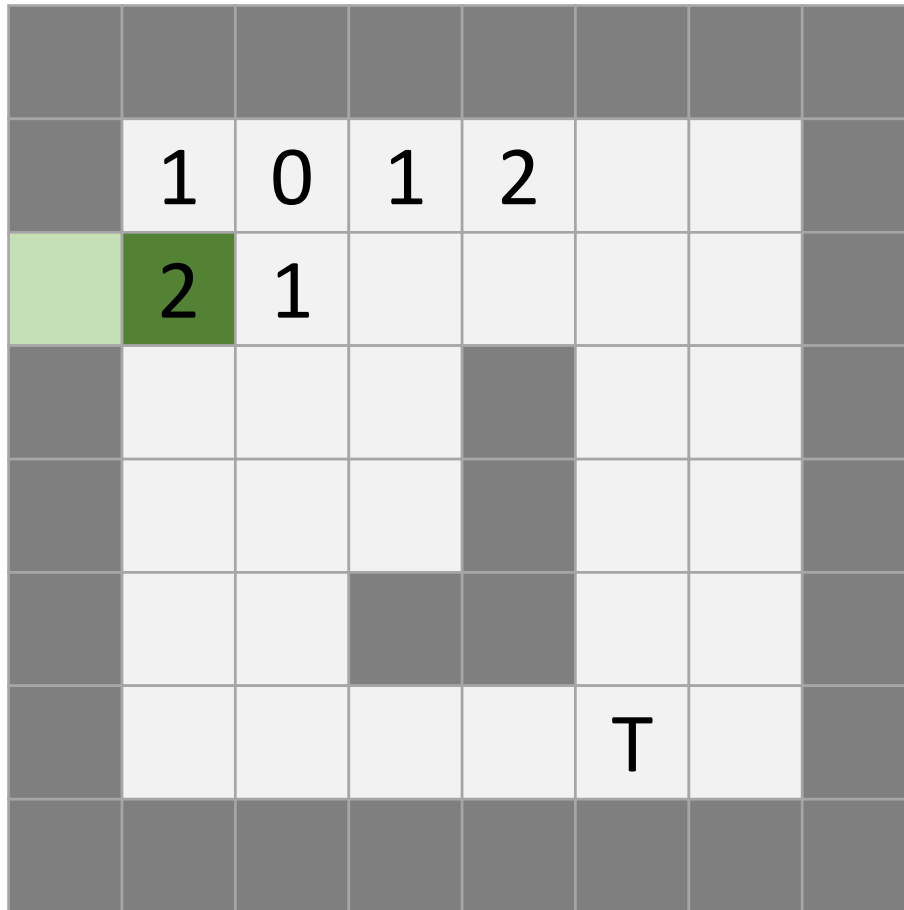
$i = 2$



Slow Version

Path Length

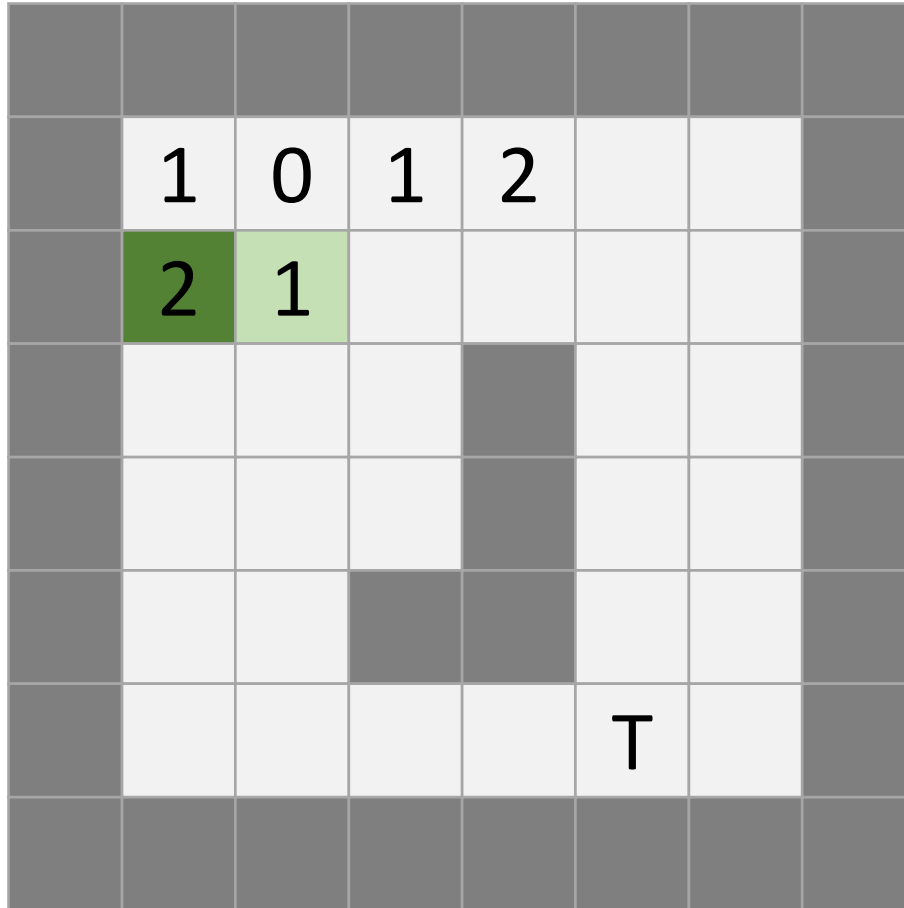
$i = 2$



Slow Version

Path Length

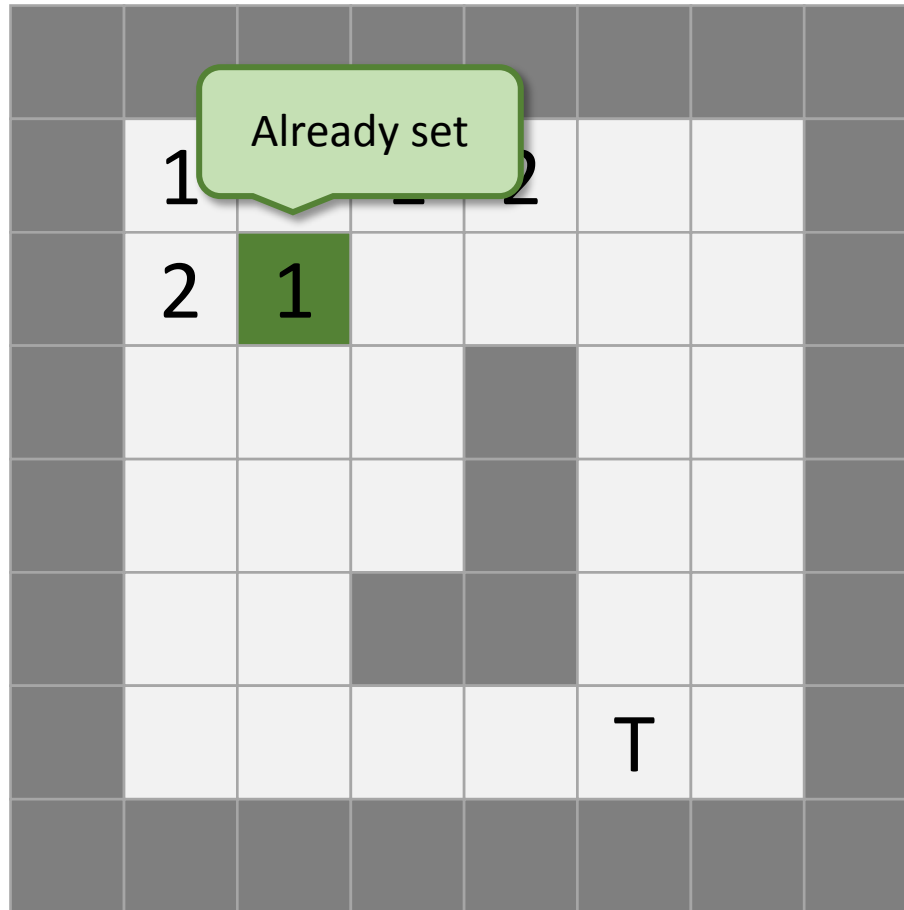
$i = 2$



Slow Version

Path Length

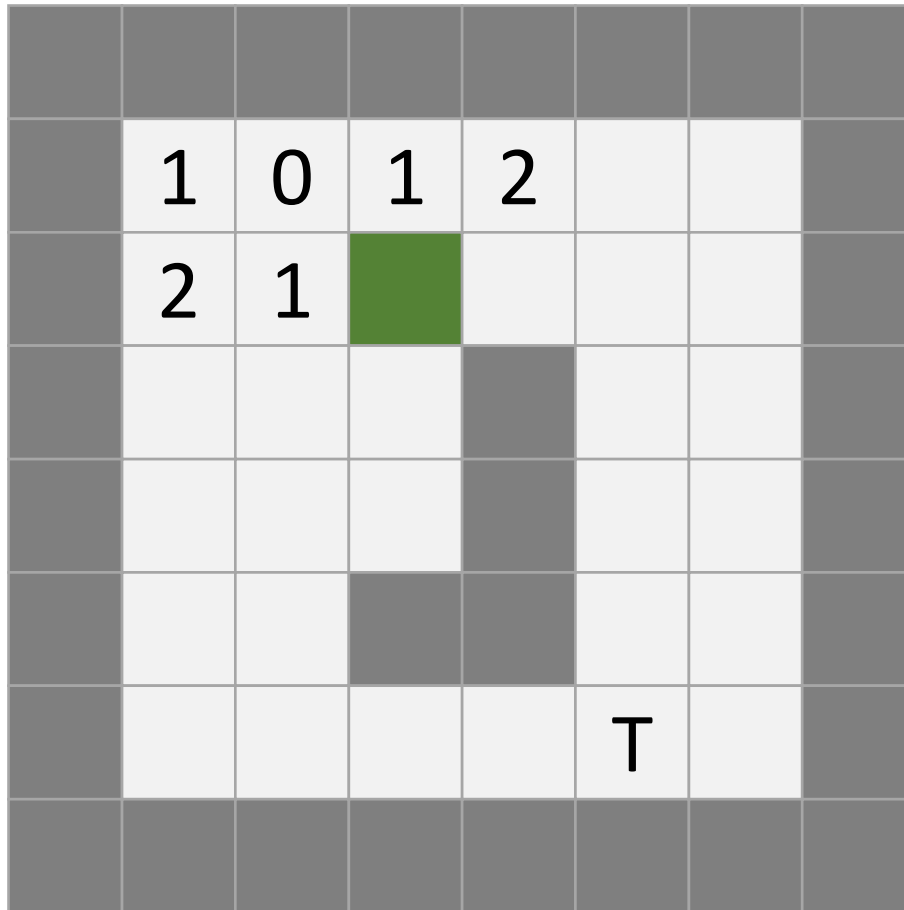
$i = 2$



Slow Version

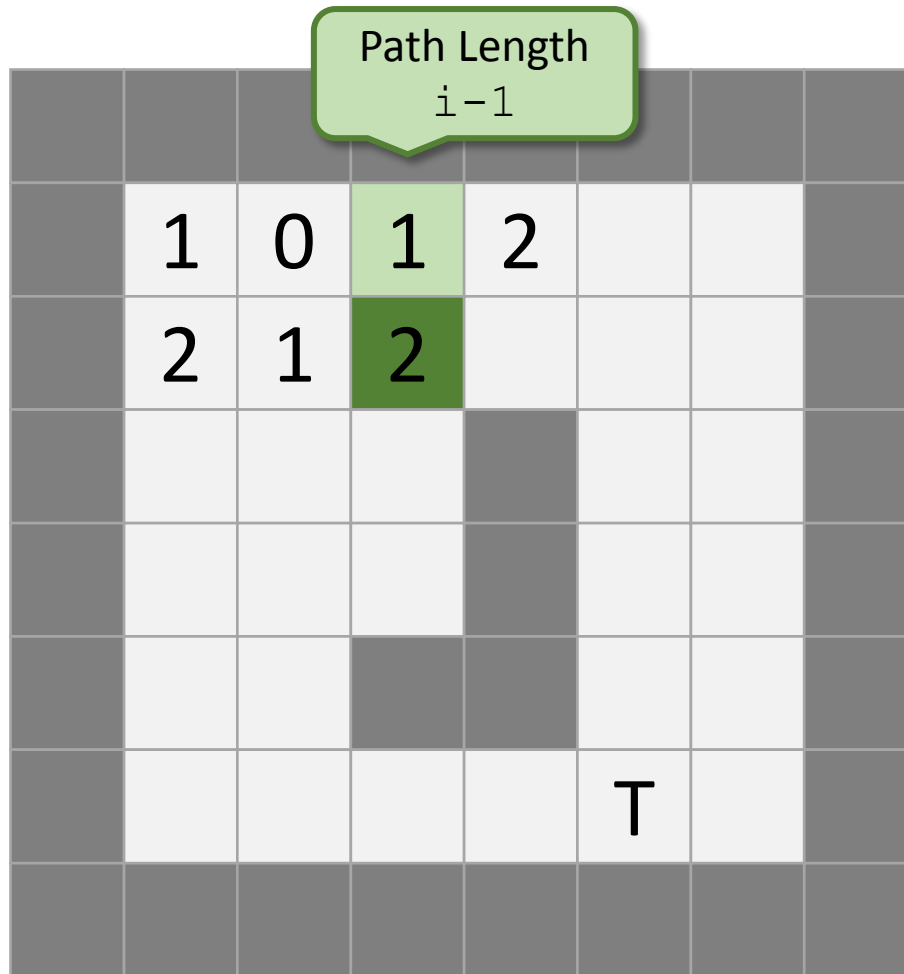
Path Length

$i = 2$



Slow Version

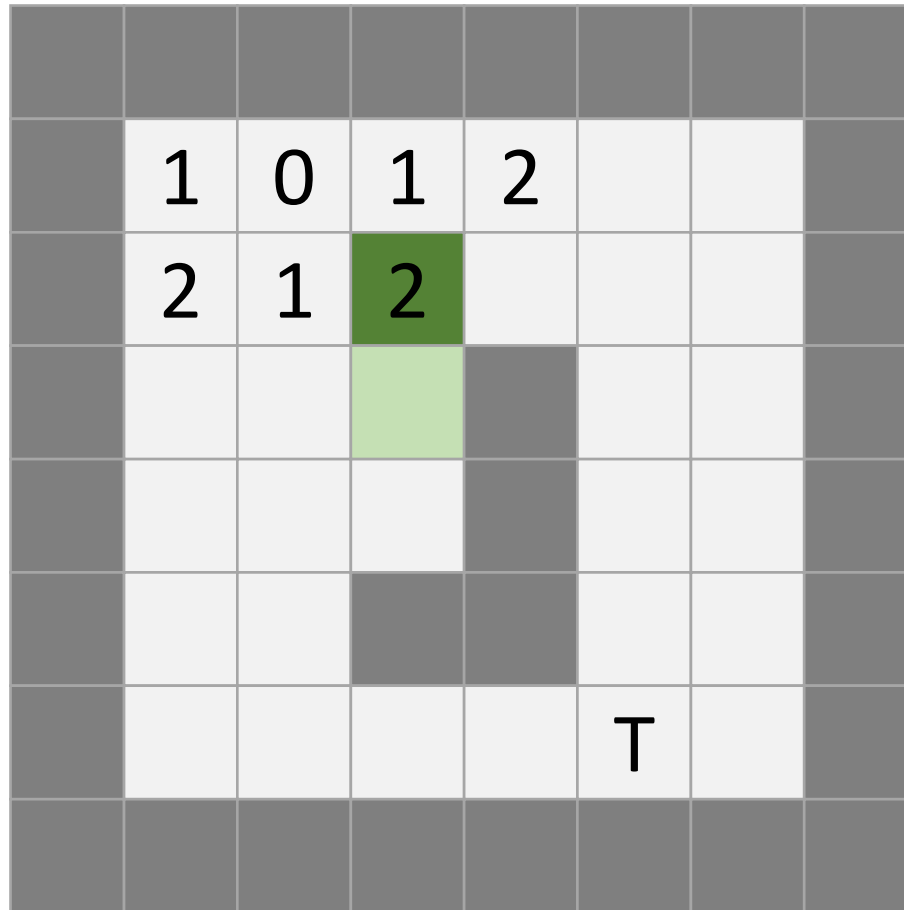
Path Length
 $i = 2$



Slow Version

Path Length

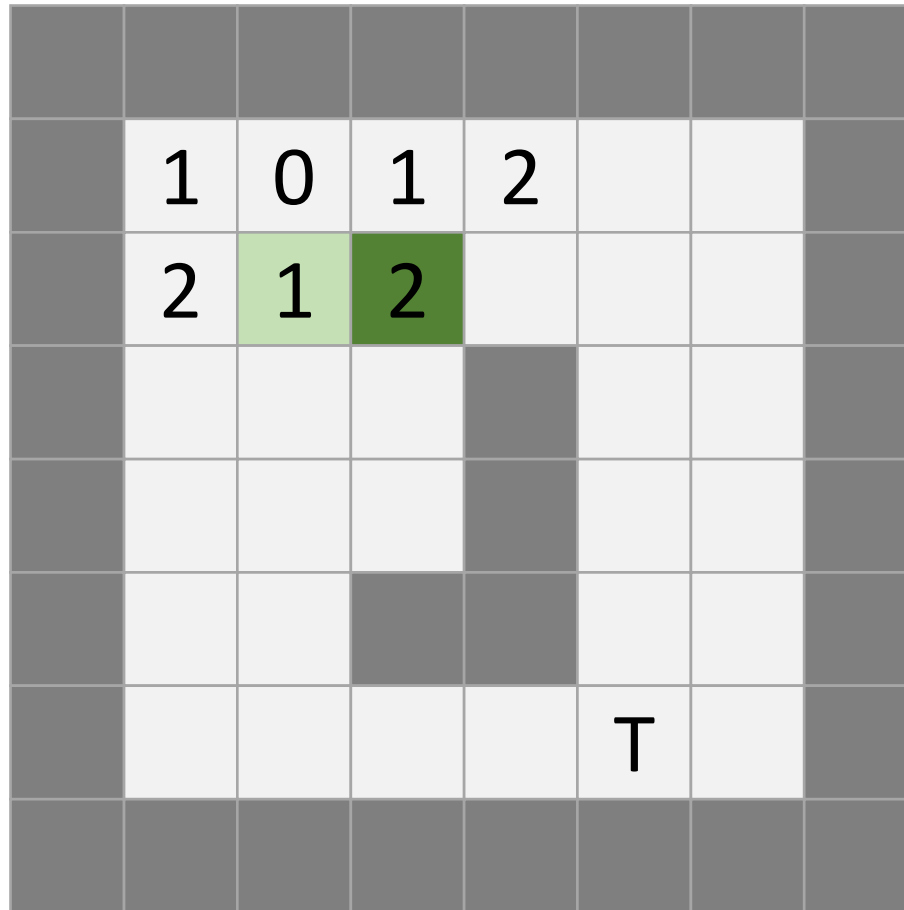
$i = 2$



Slow Version

Path Length

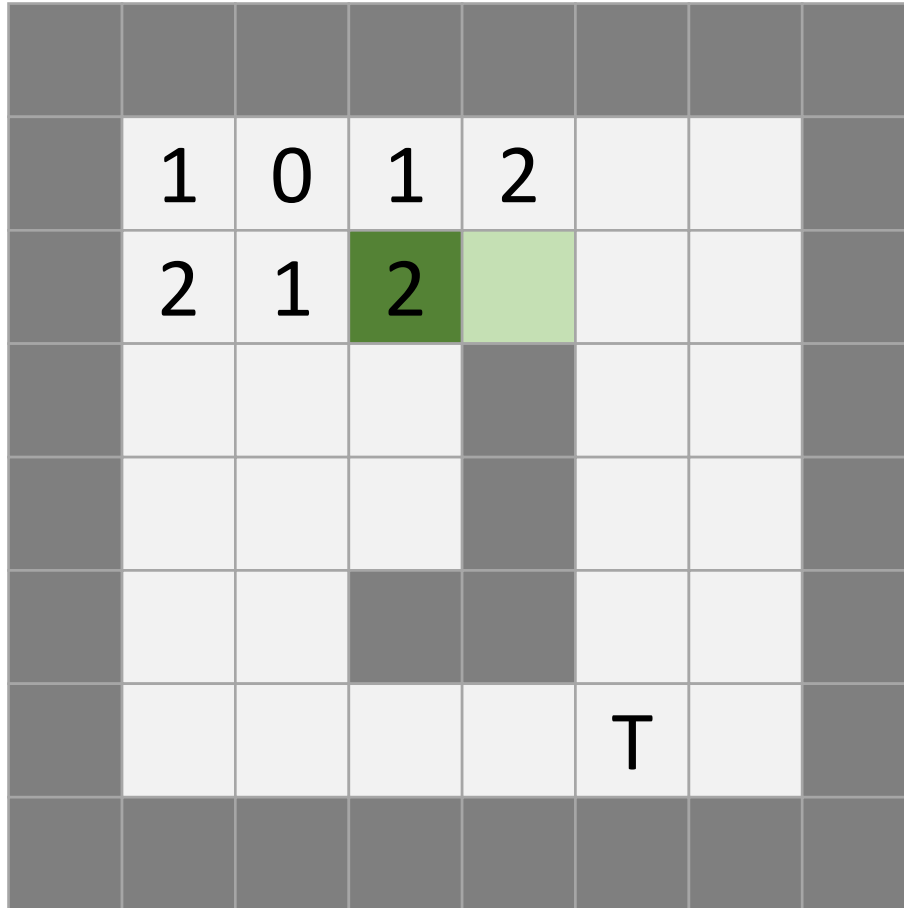
$i = 2$



Slow Version

Path Length

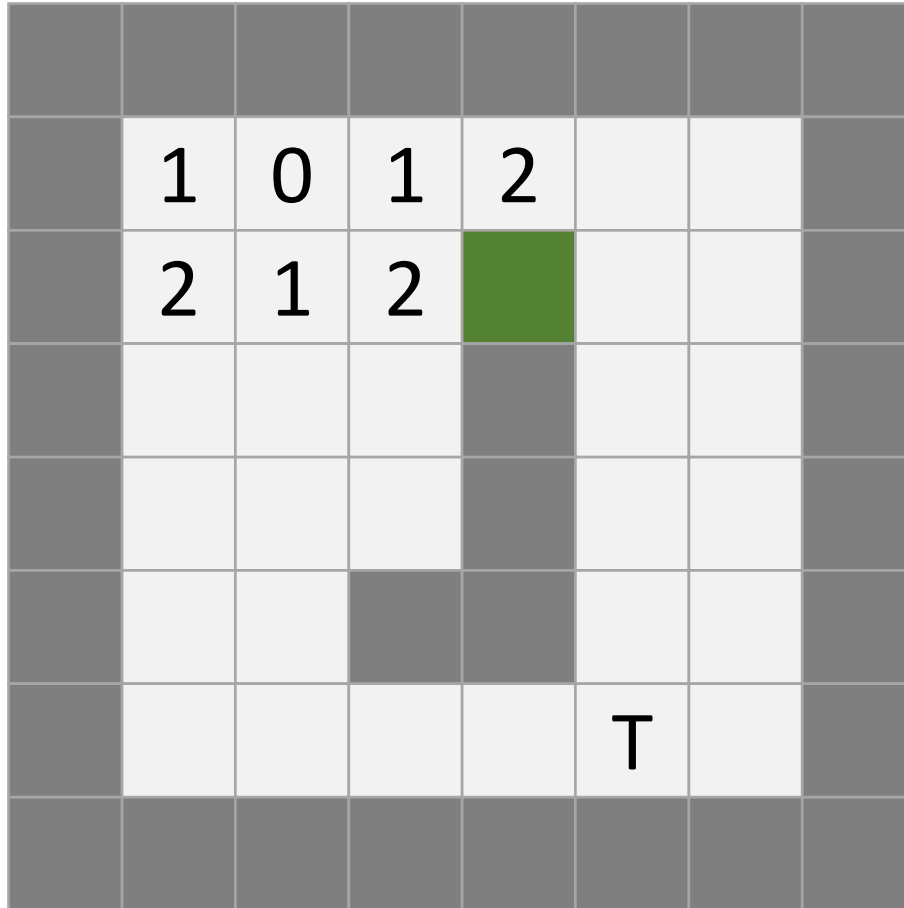
$i = 2$



Slow Version

Path Length

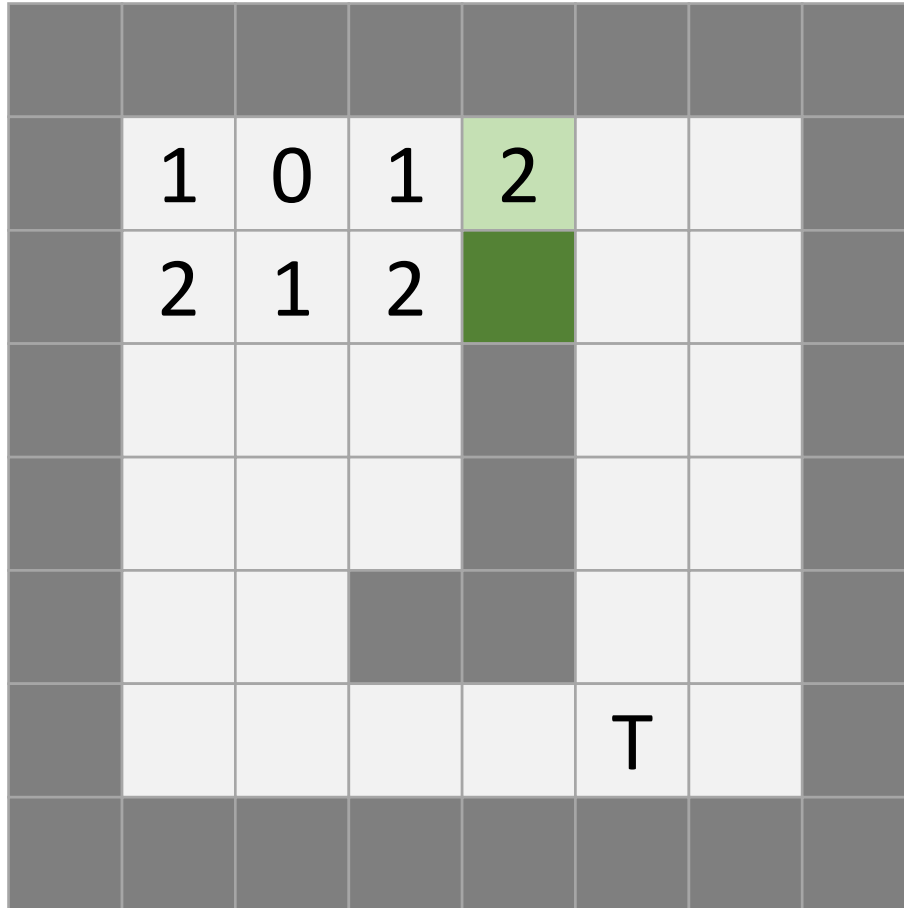
$i = 2$



Slow Version

Path Length

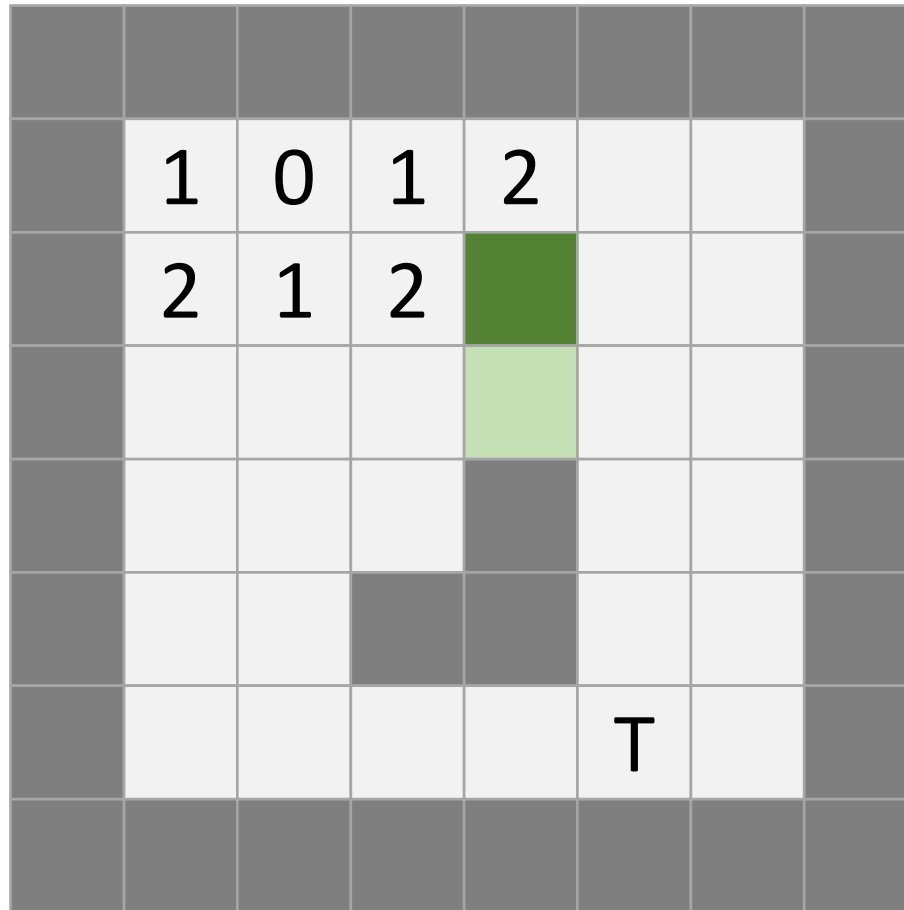
$i = 2$



Slow Version

Path Length

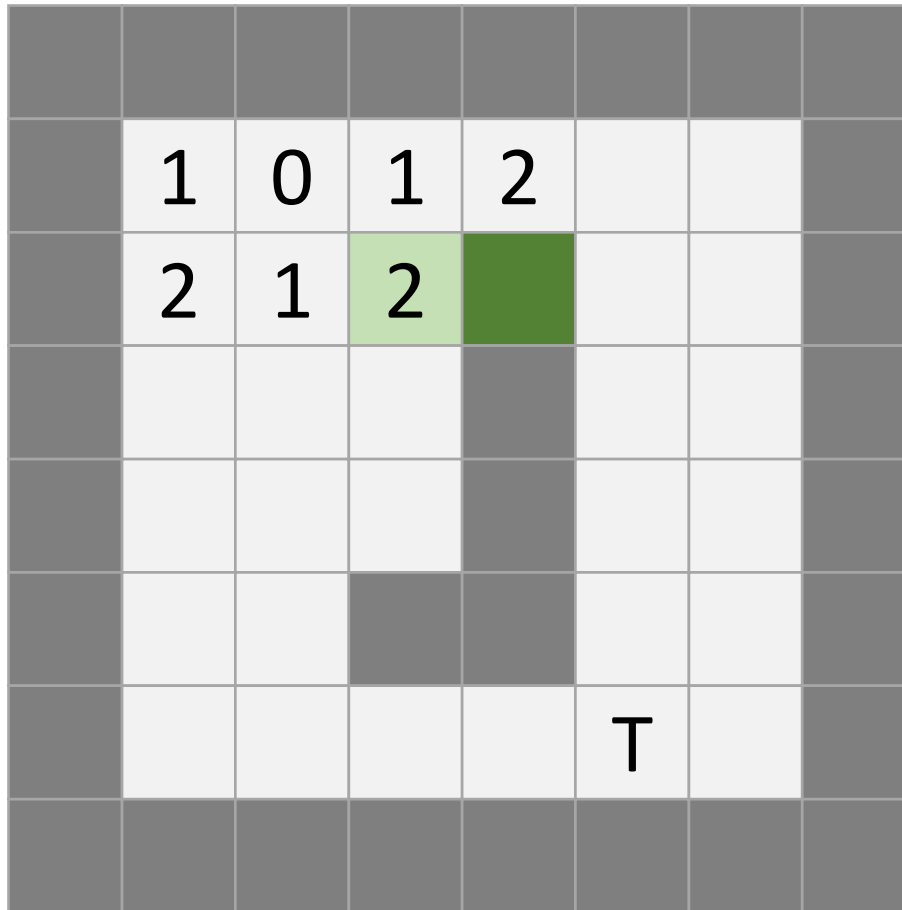
$i = 2$



Slow Version

Path Length

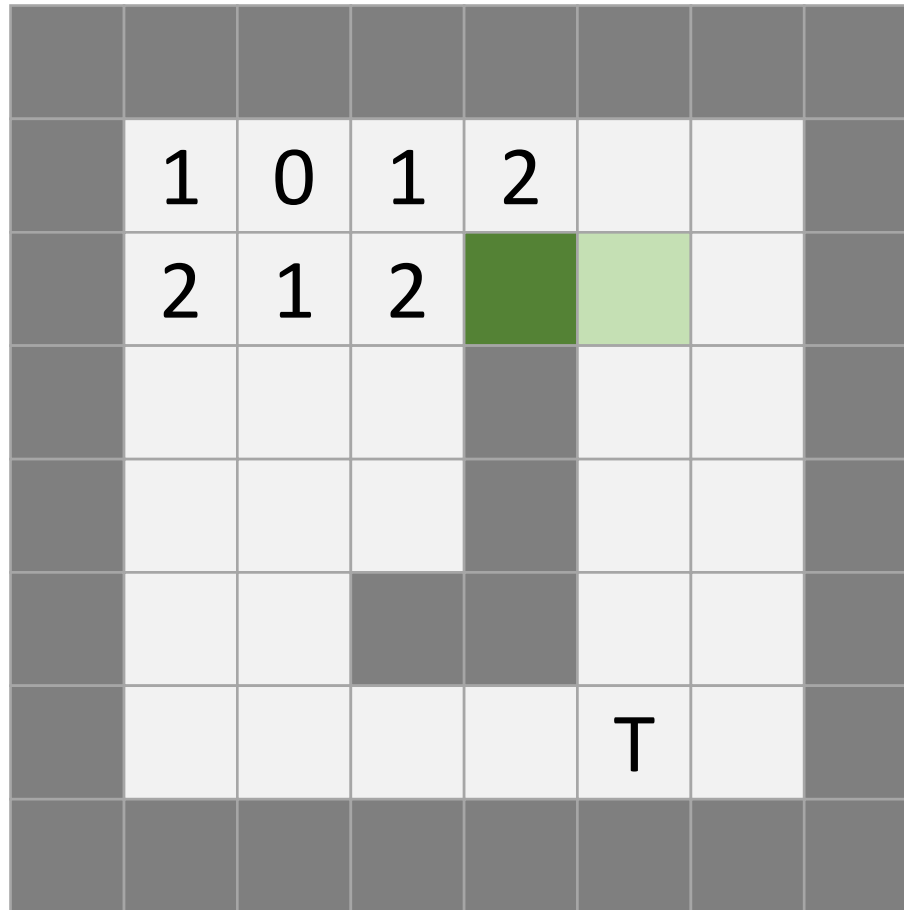
$i = 2$



Slow Version

Path Length

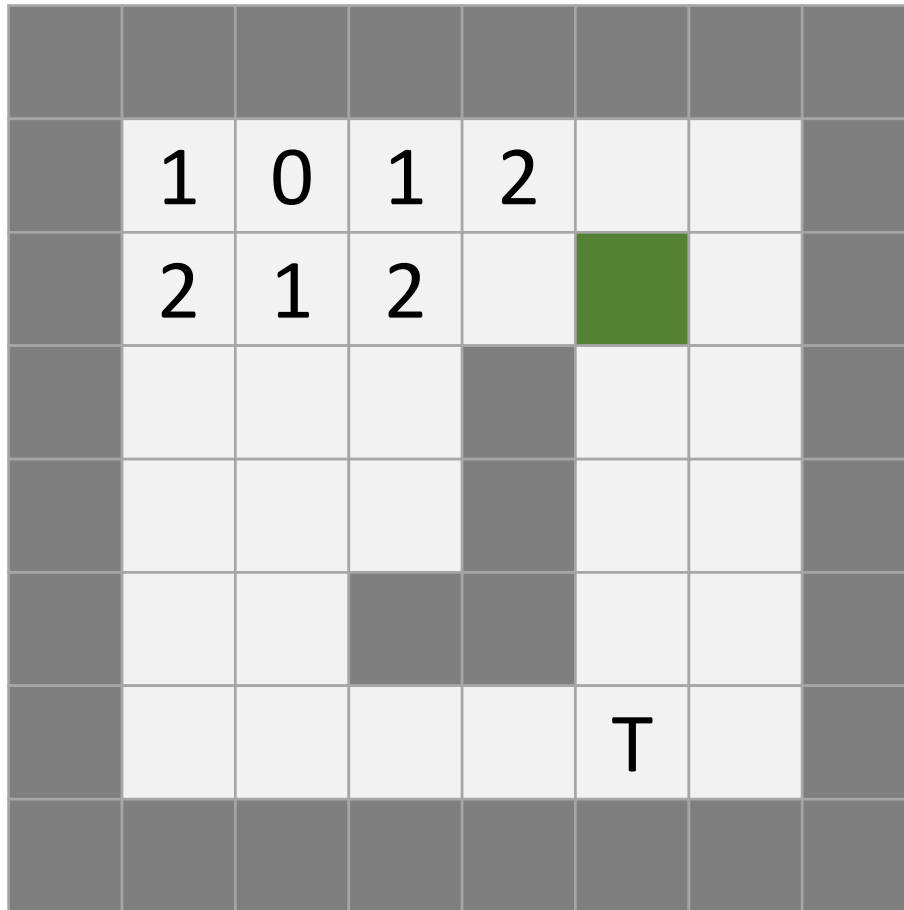
$i = 2$



Slow Version

Path Length

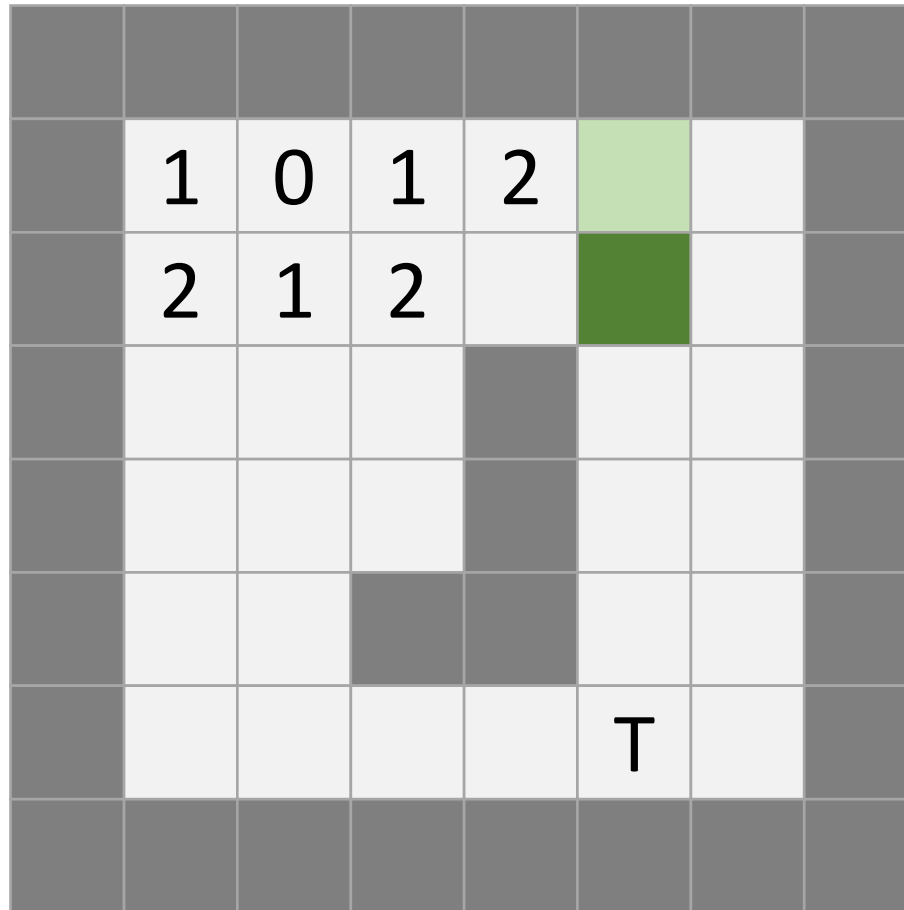
$i = 2$



Slow Version

Path Length

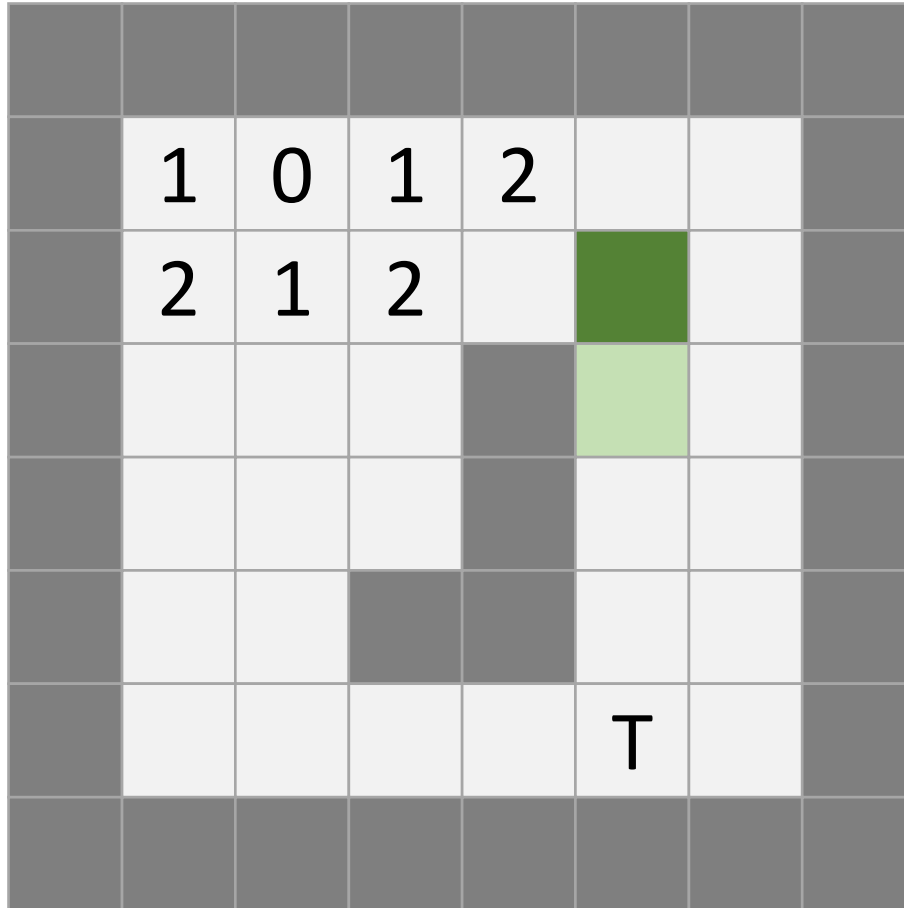
$i = 2$



Slow Version

Path Length

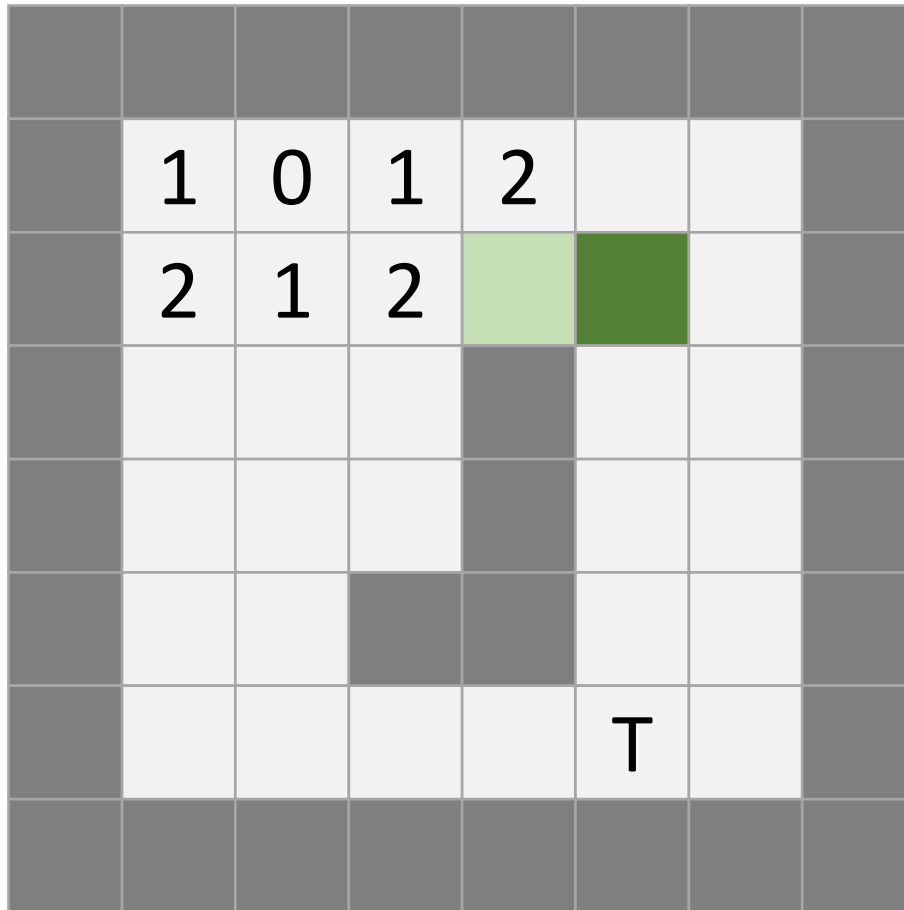
$i = 2$



Slow Version

Path Length

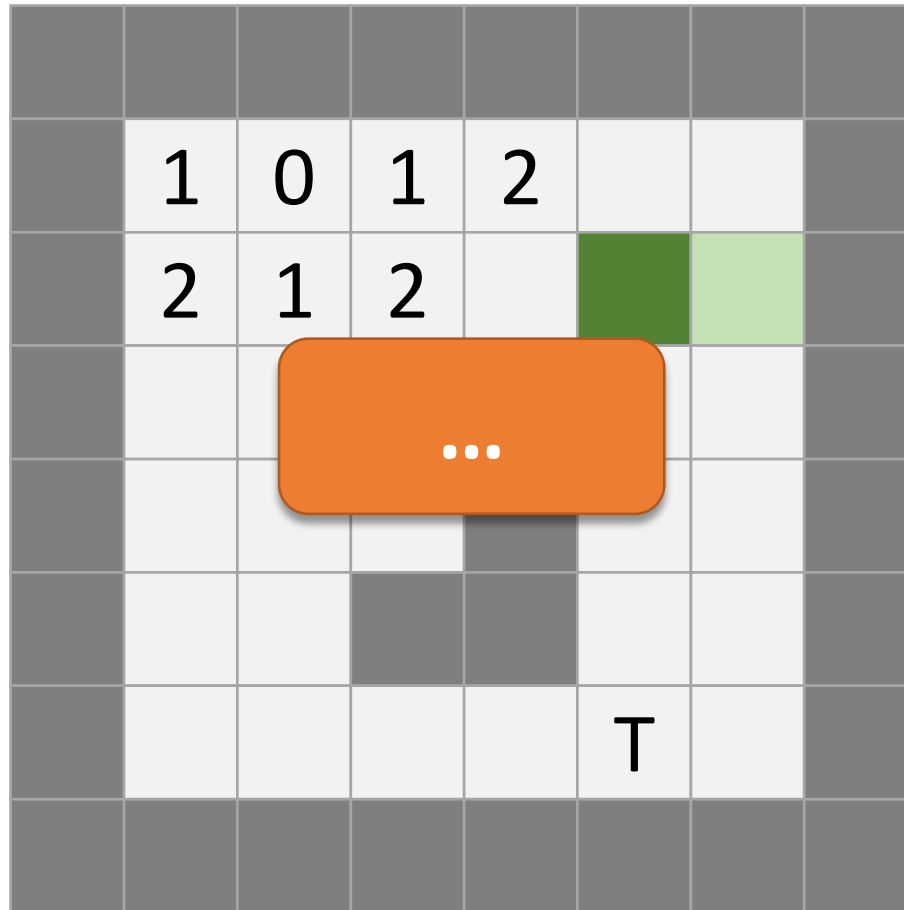
$i = 2$



Slow Version

Path Length

$i = 2$



Slow Version

Path Length

$i = 9$

	1	0	1	2	3	4	
	2	1	2	3	4	5	
	3	2	3		5	6	
	4	3	4		6	7	
	5	4			7	8	
	6	5	6	7	8	9	

Improvement

- Problem:

In each step the whole floor is examined.

Improvement

- Problem:

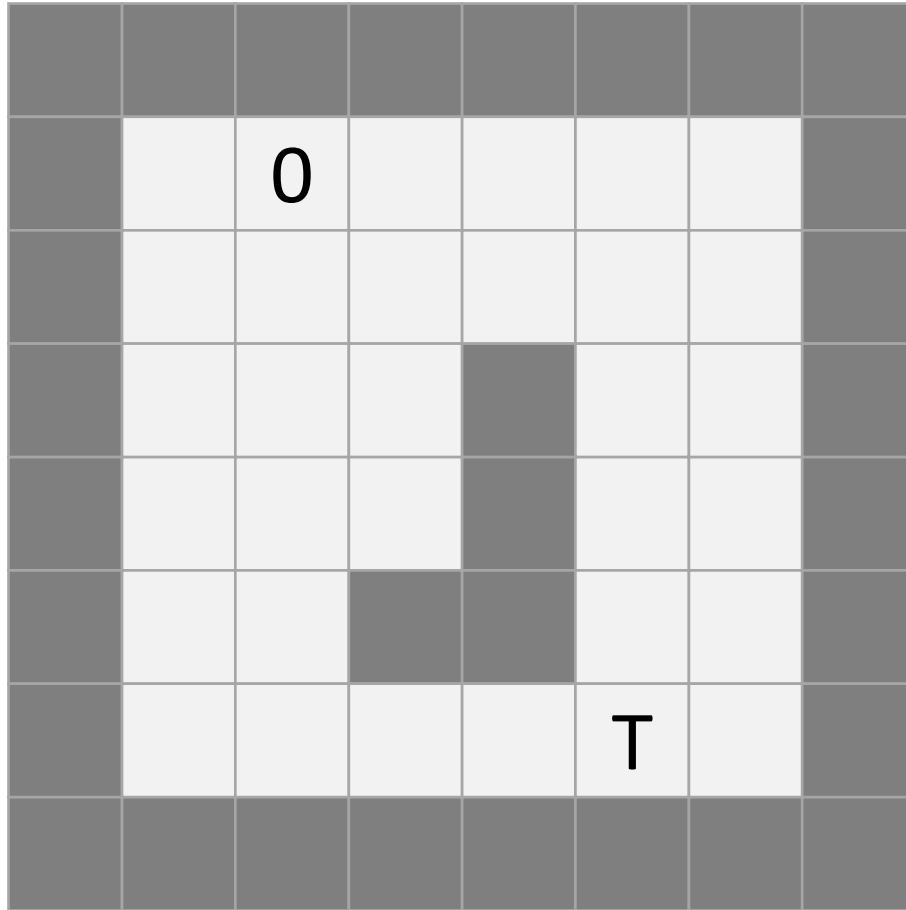
In each step the whole floor is examined.

- Idea:

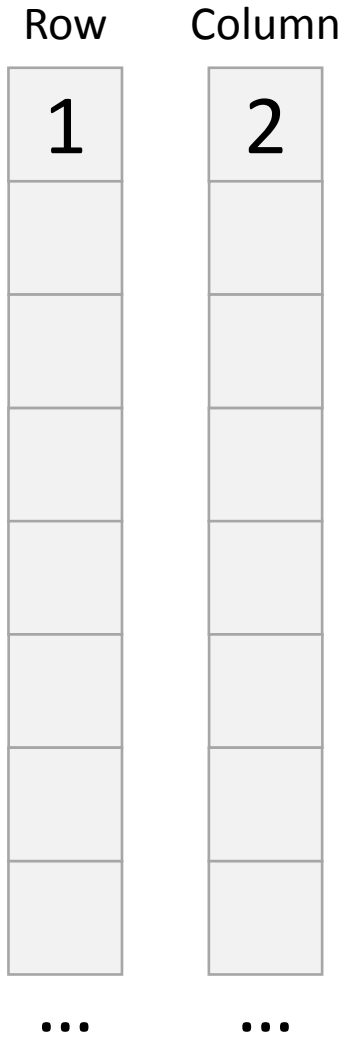
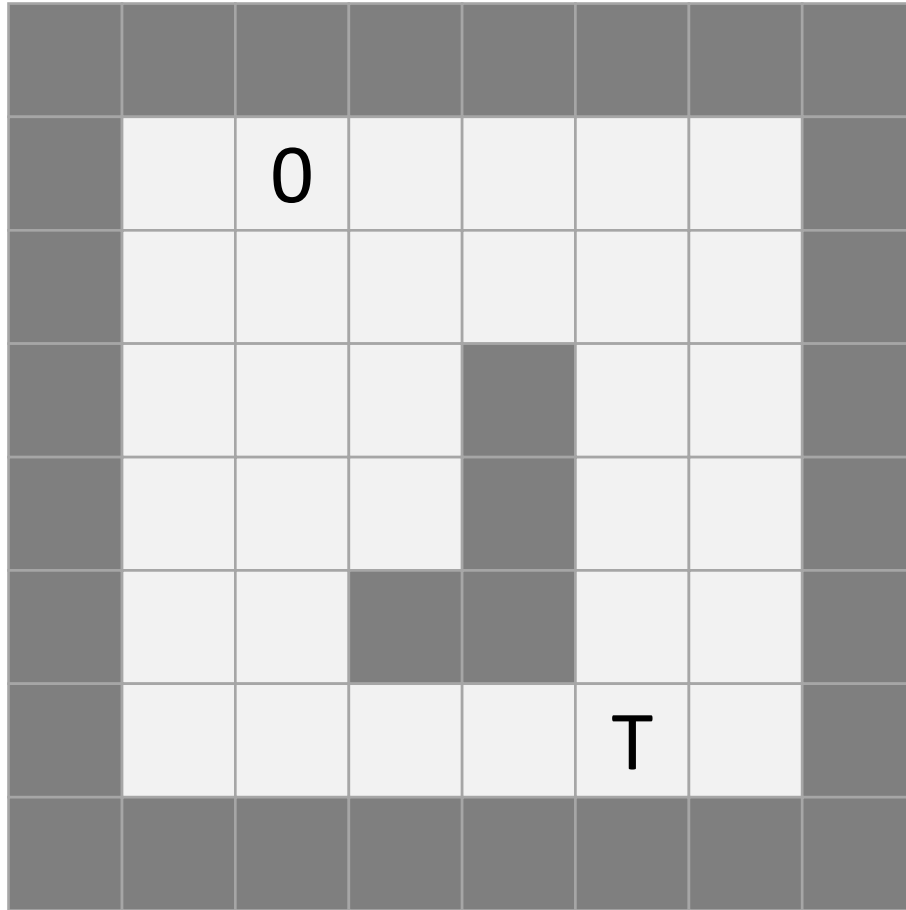
Just examine neighbours.

Faster Version

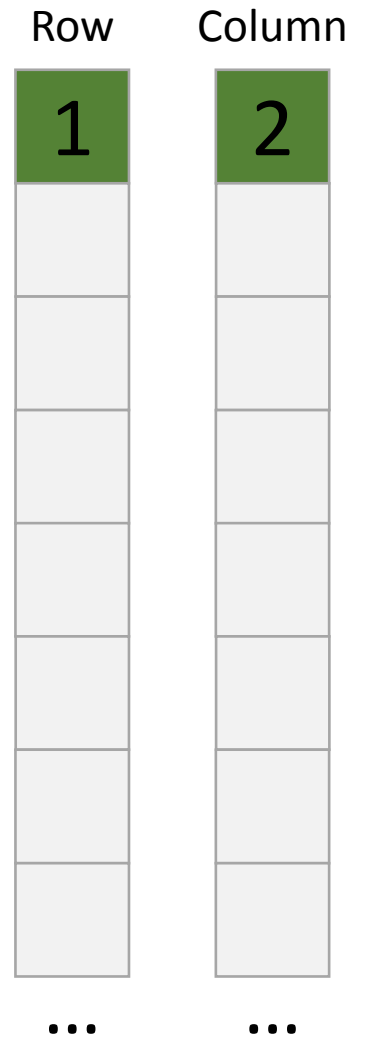
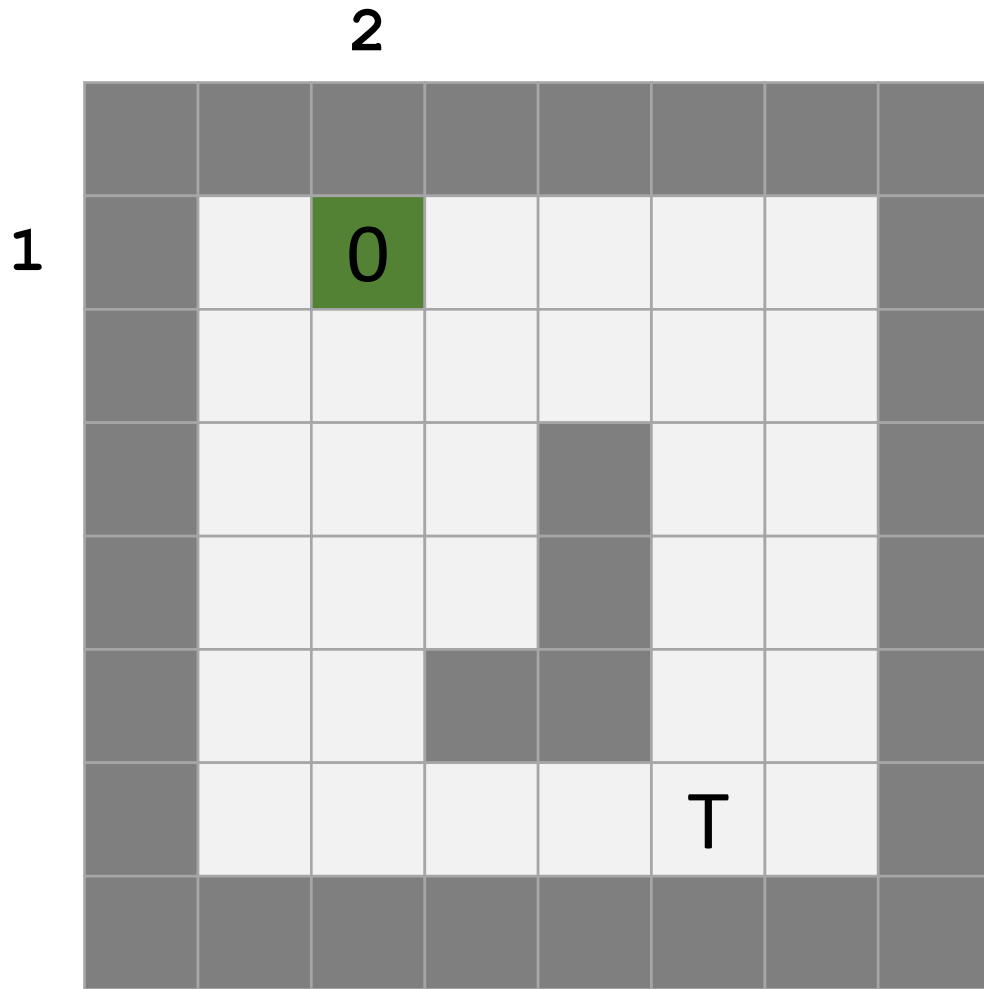
Faster Version



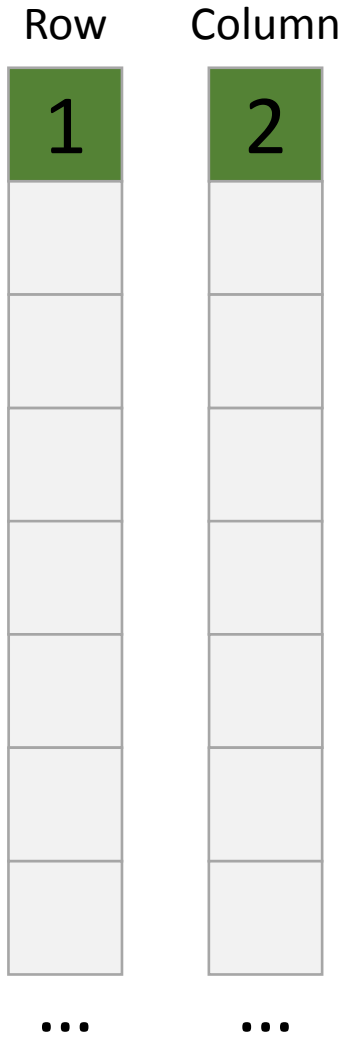
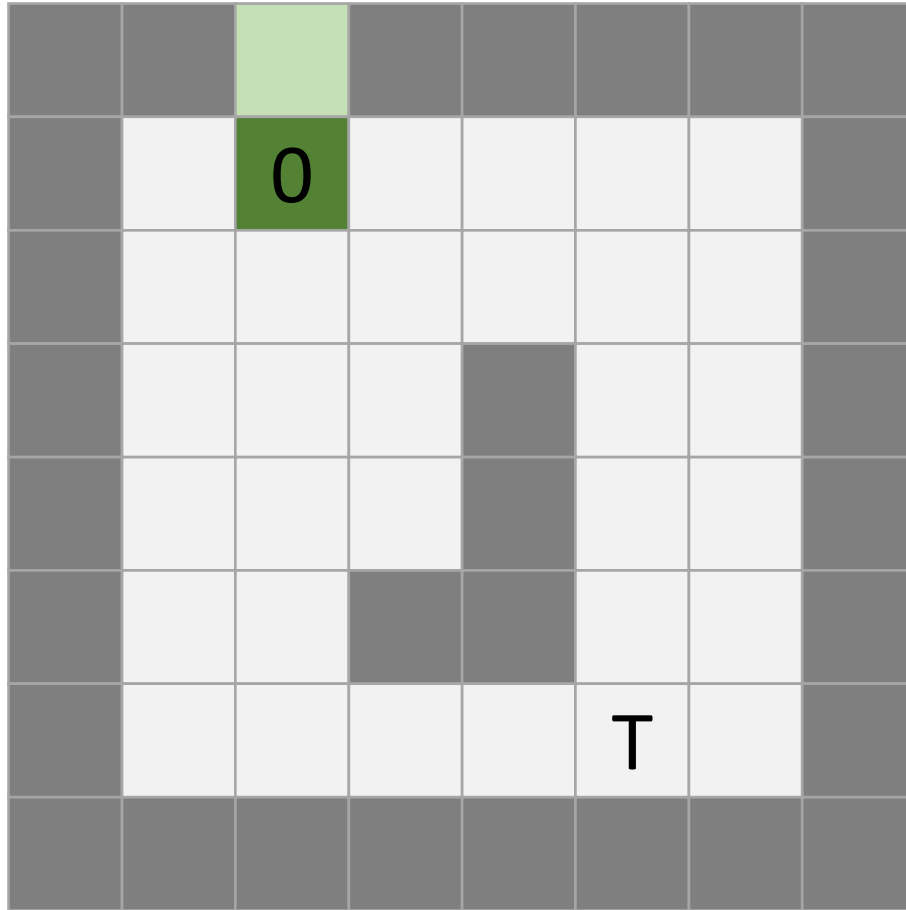
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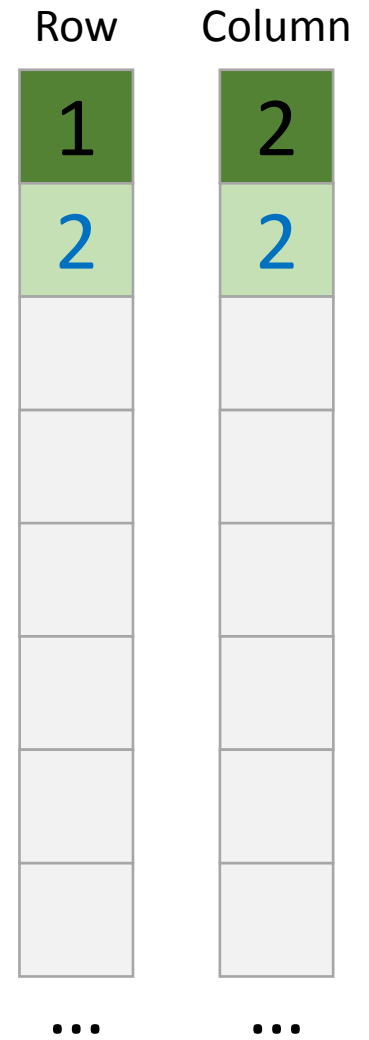
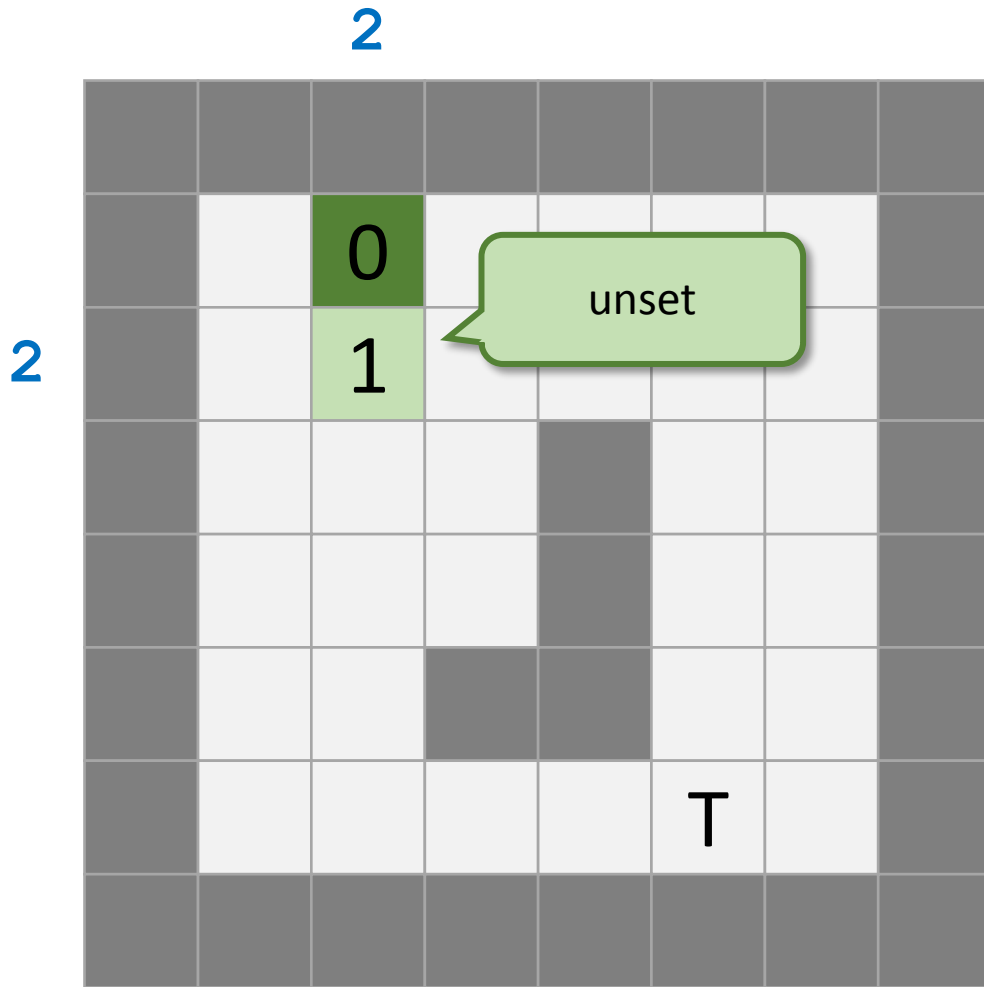
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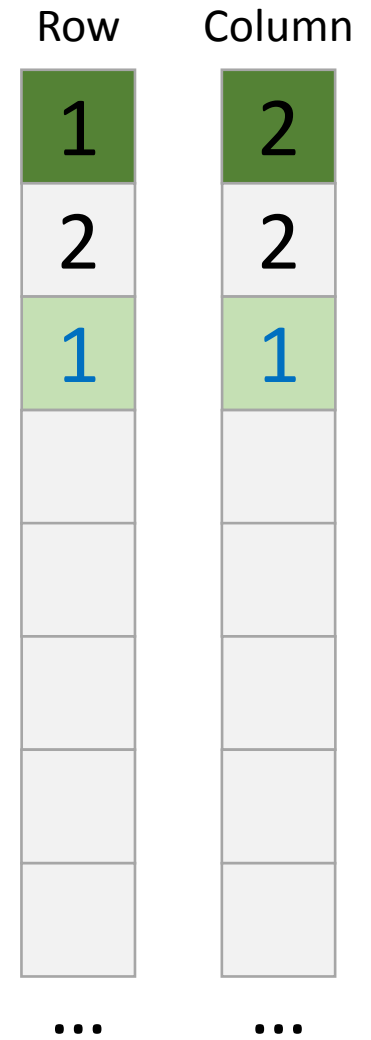
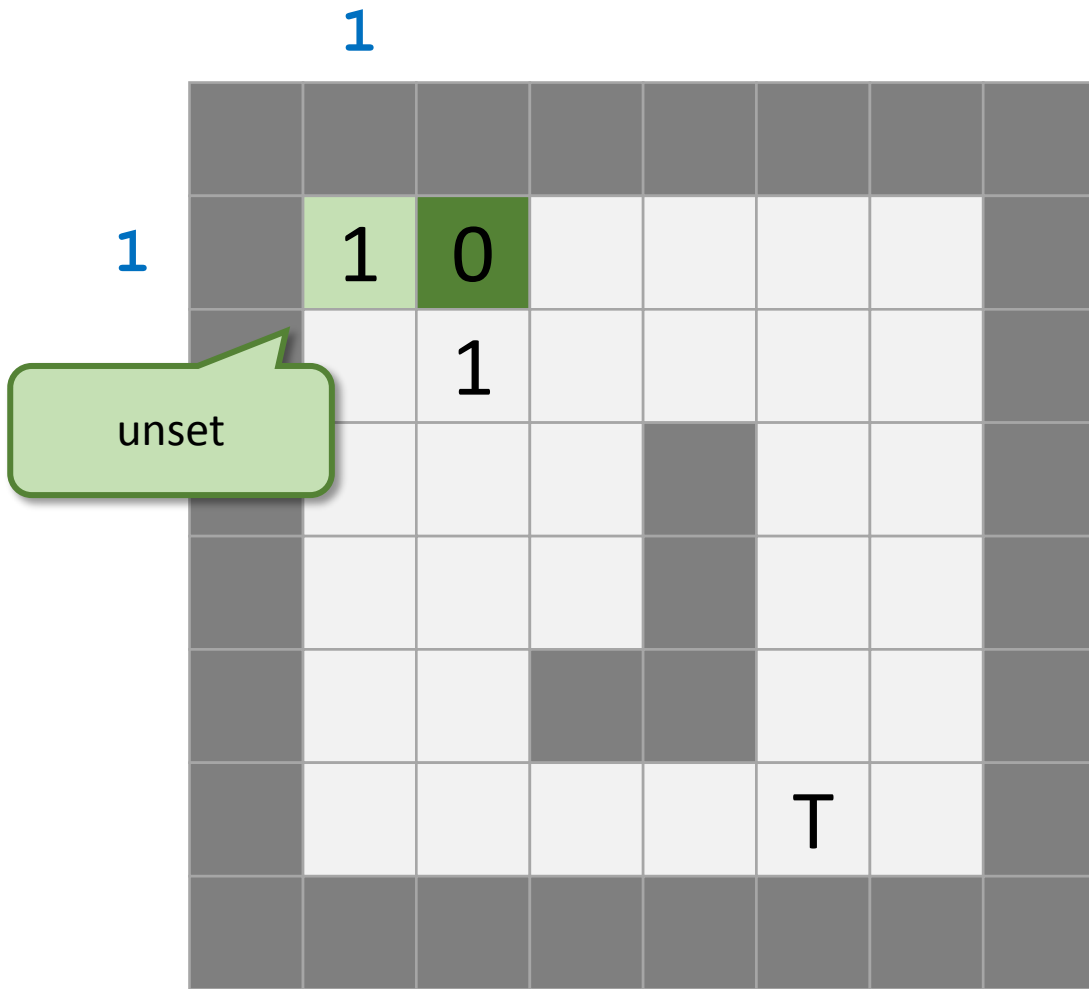
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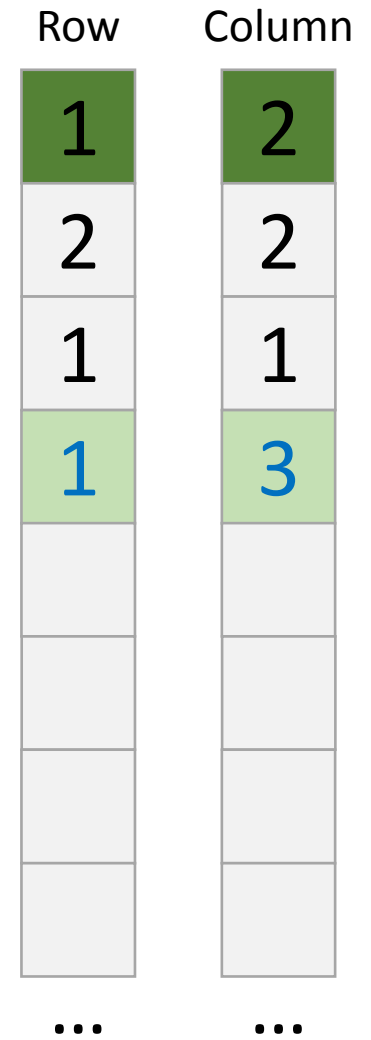
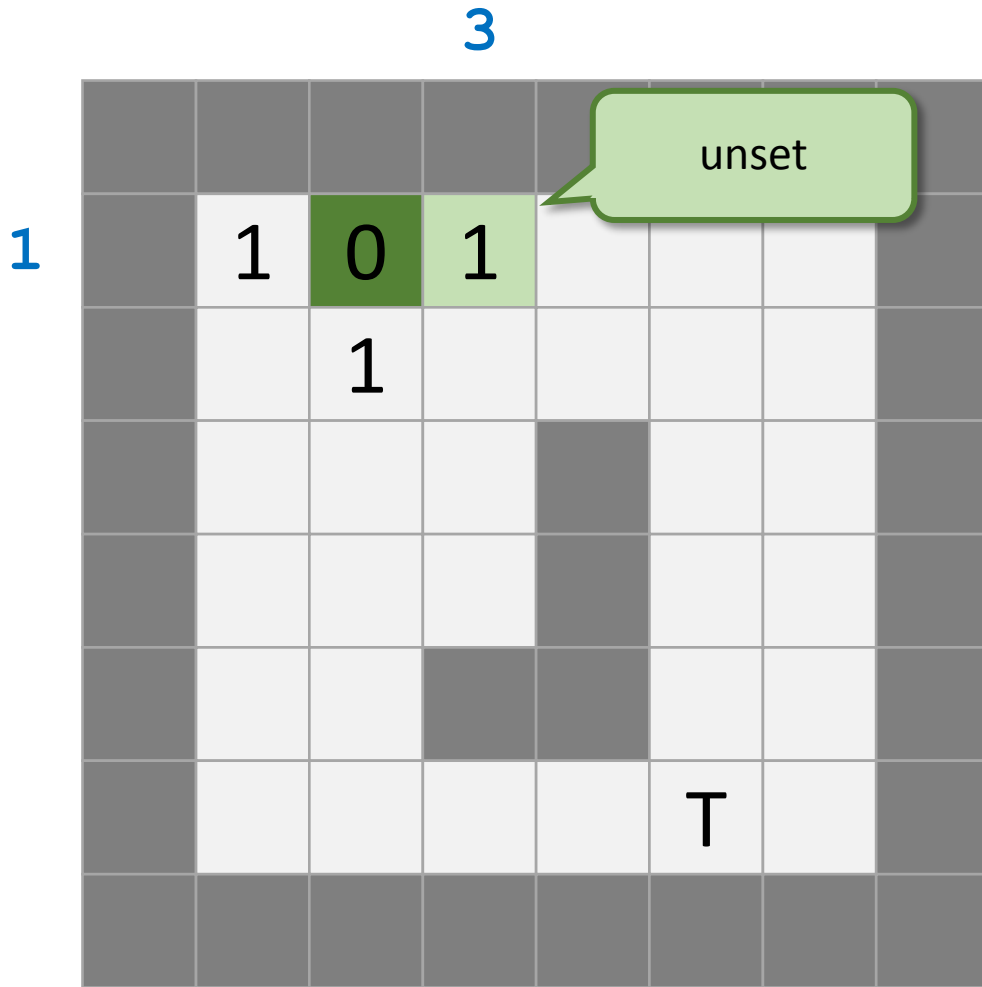
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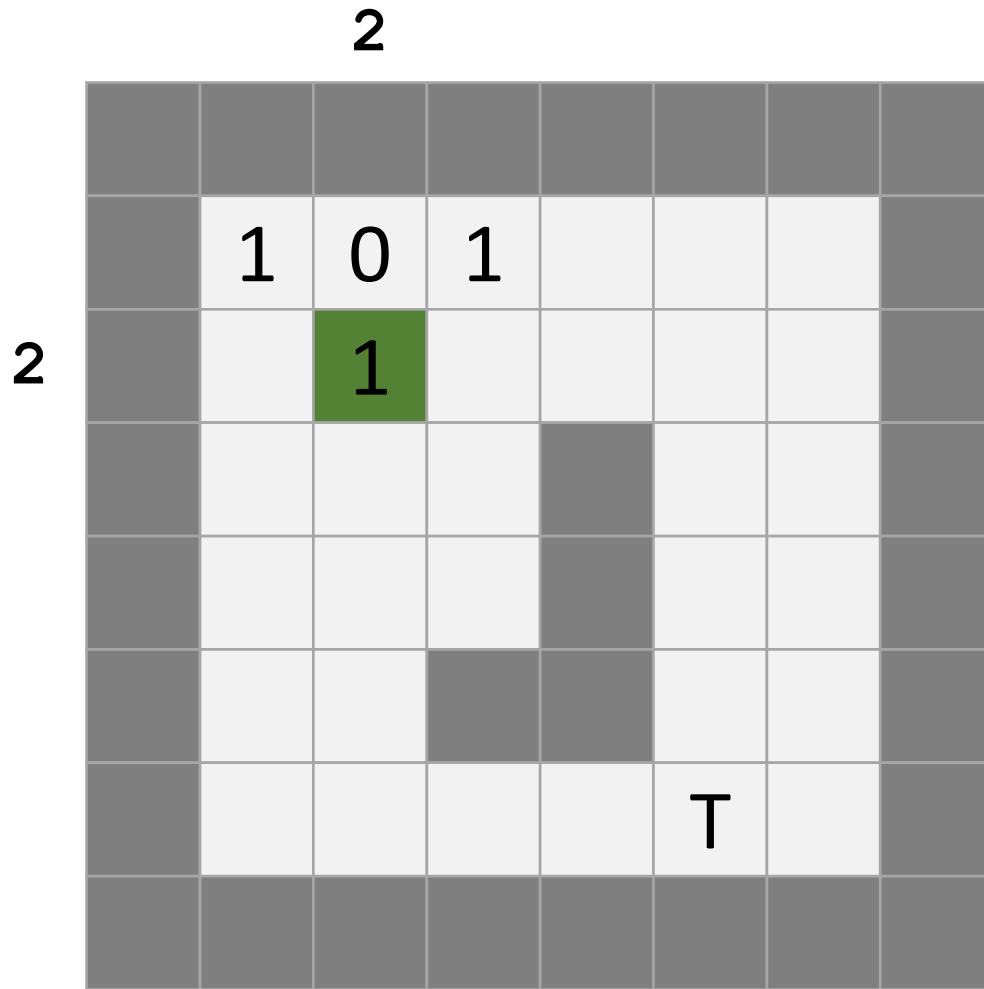
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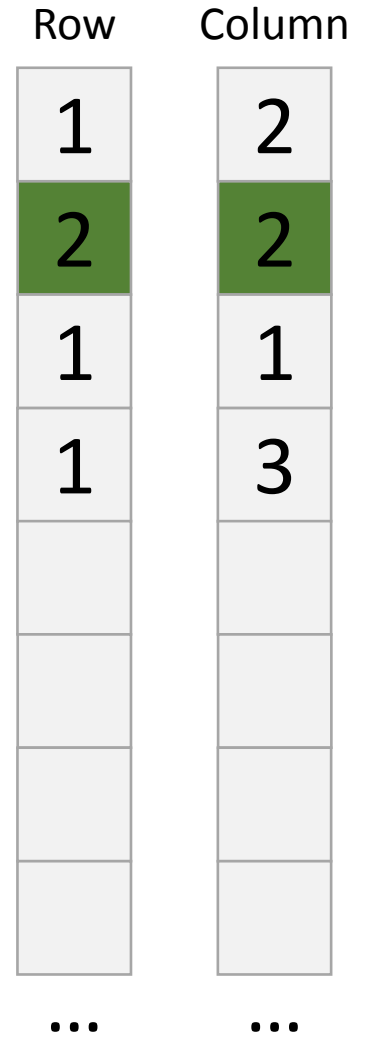
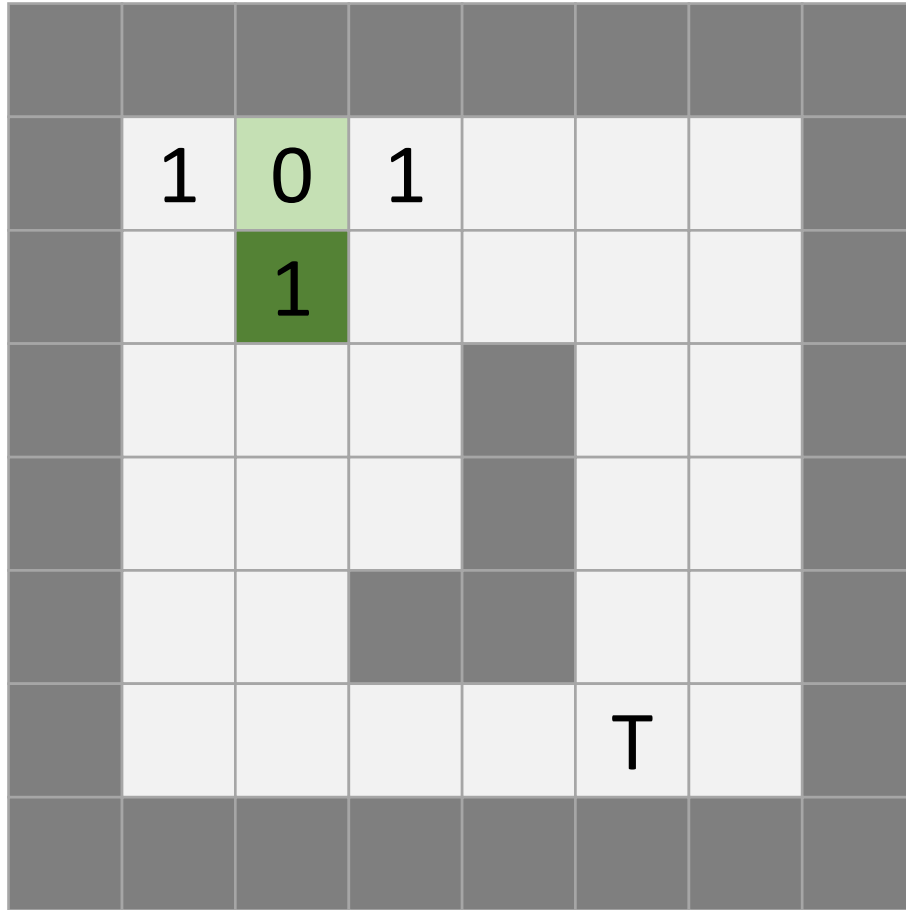


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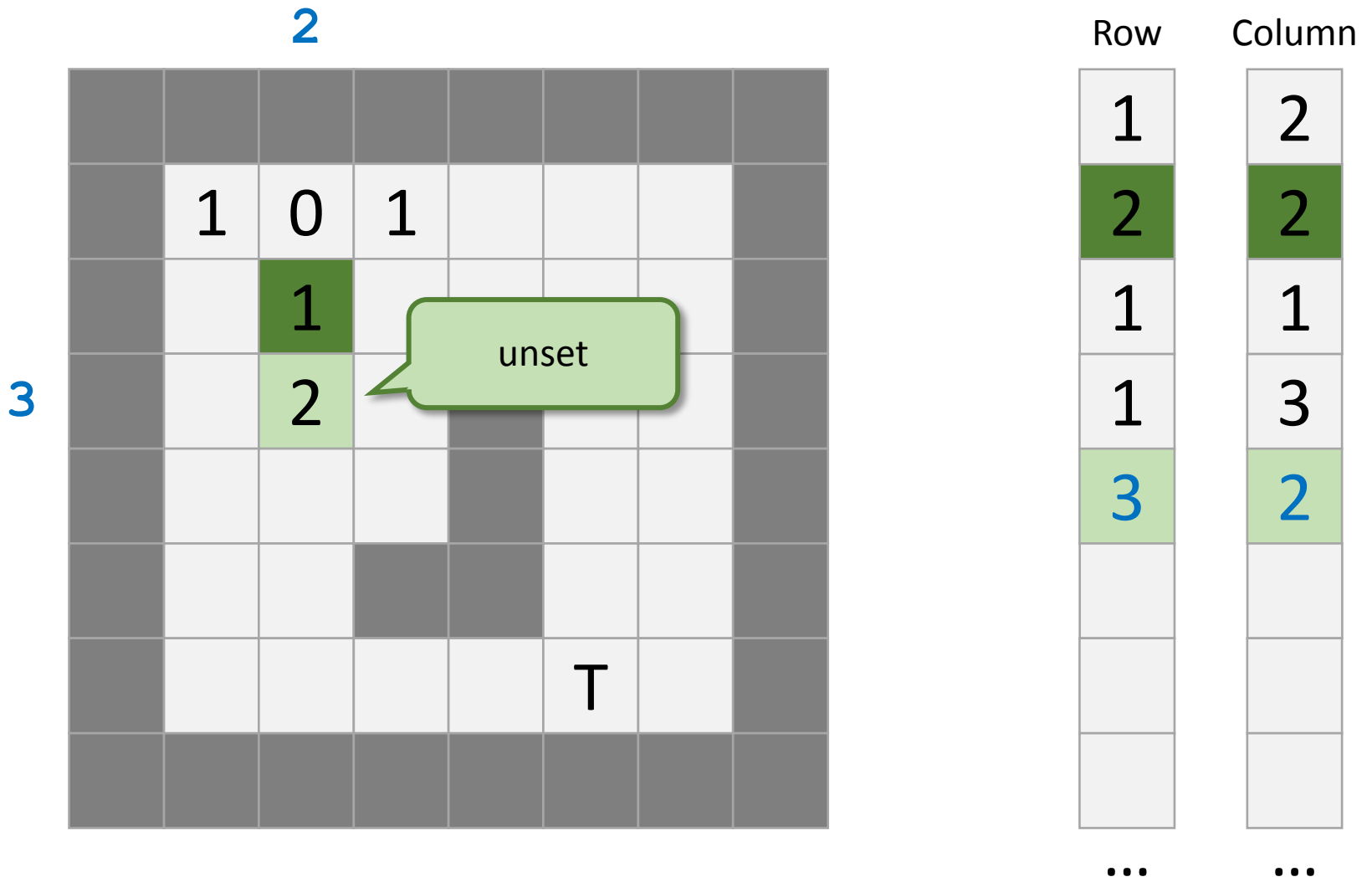


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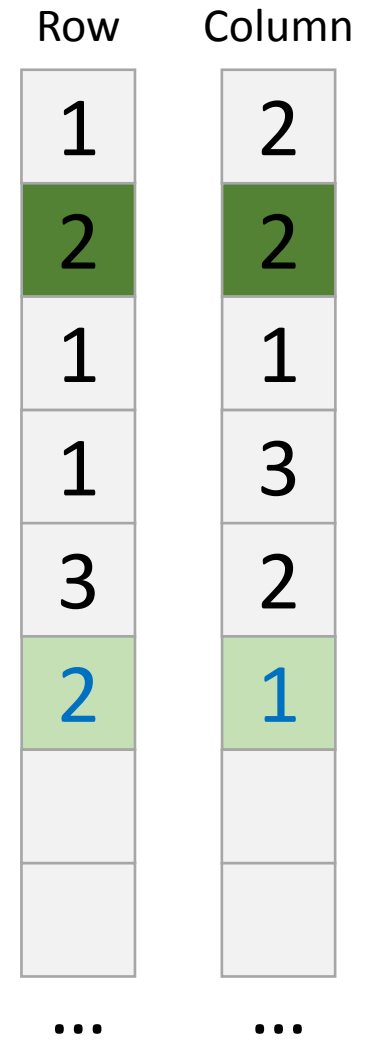
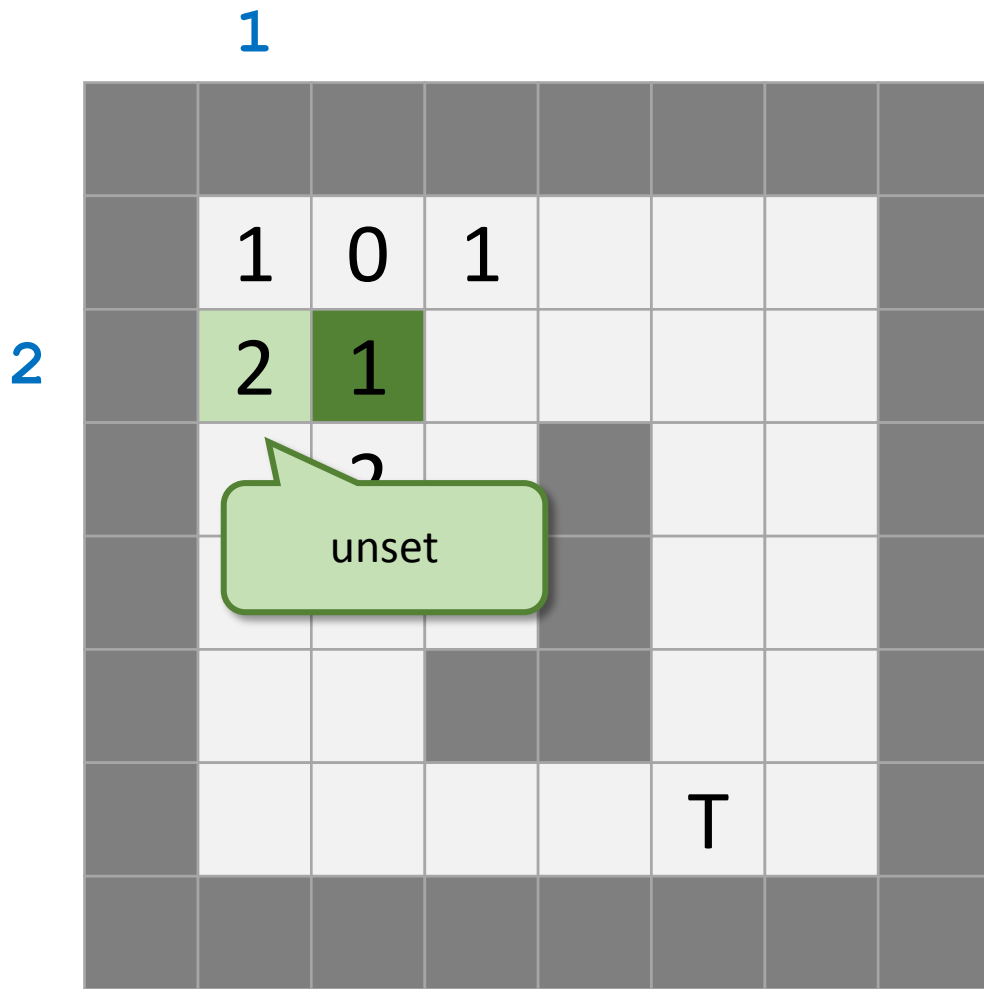
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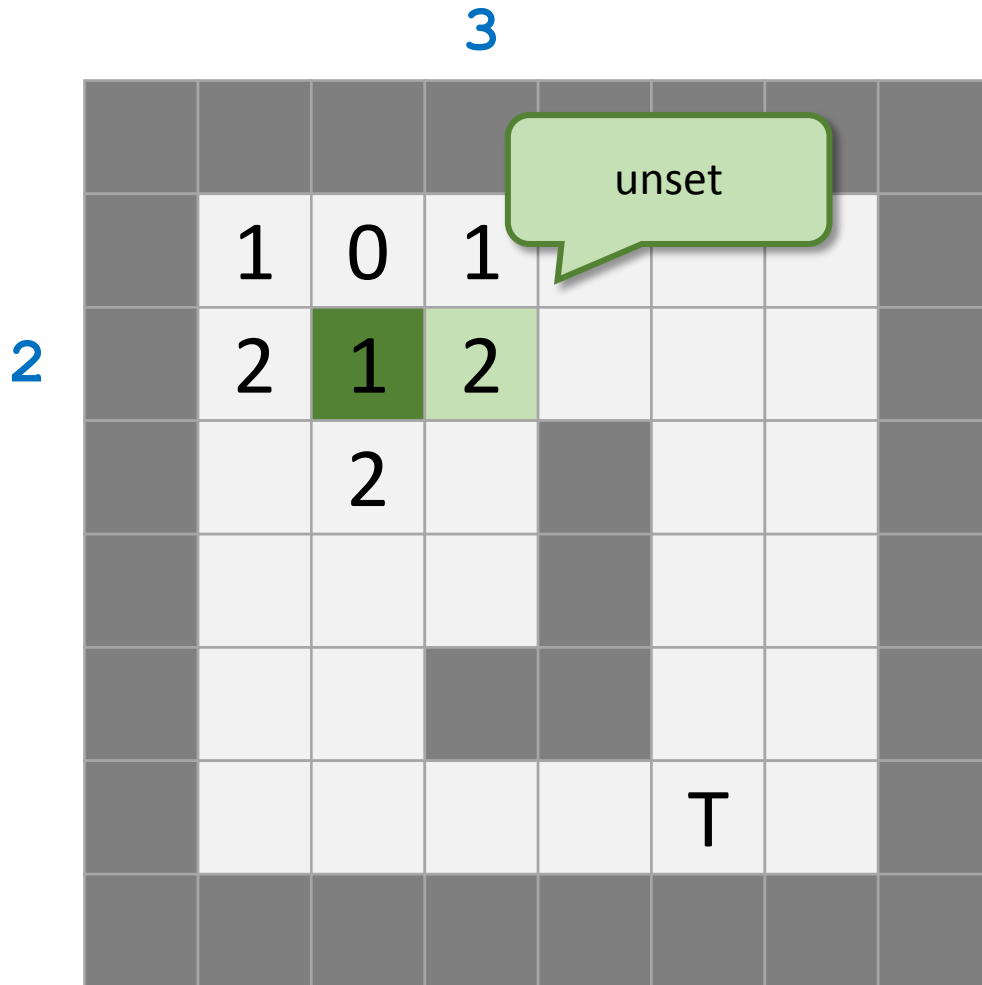
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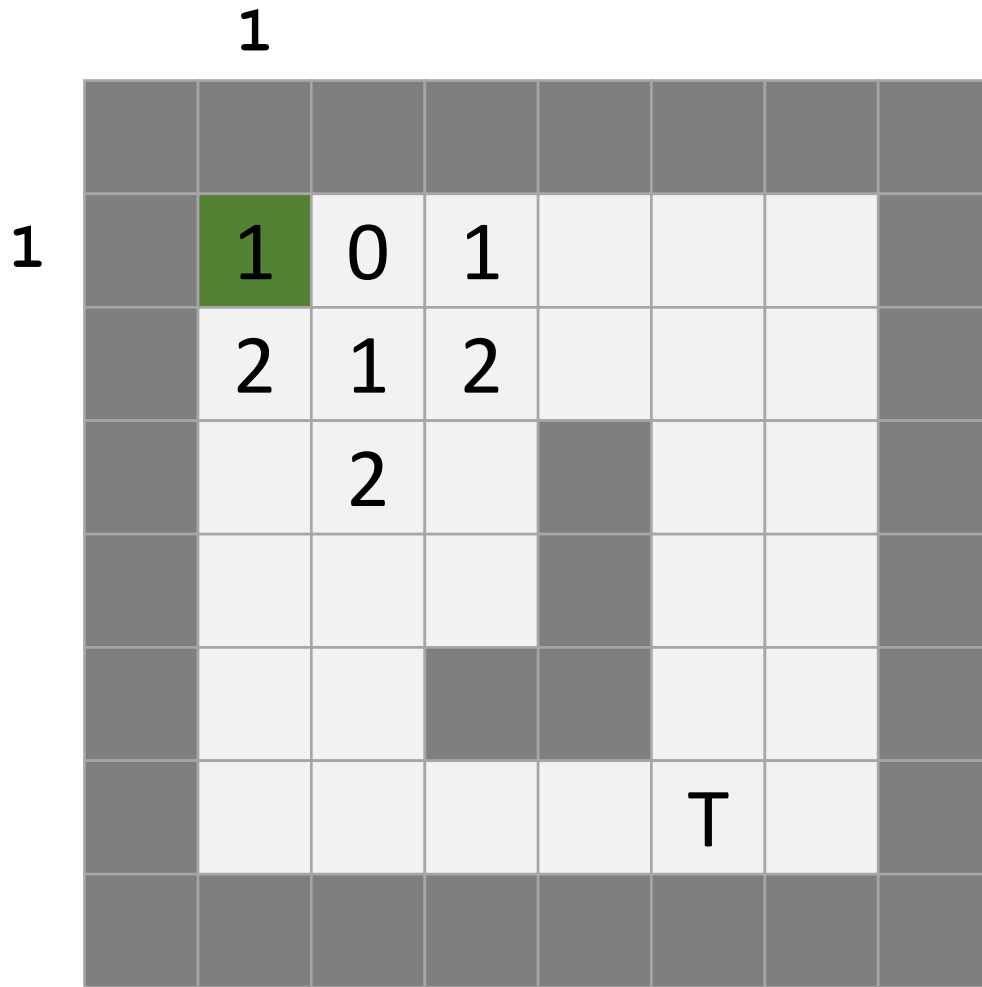


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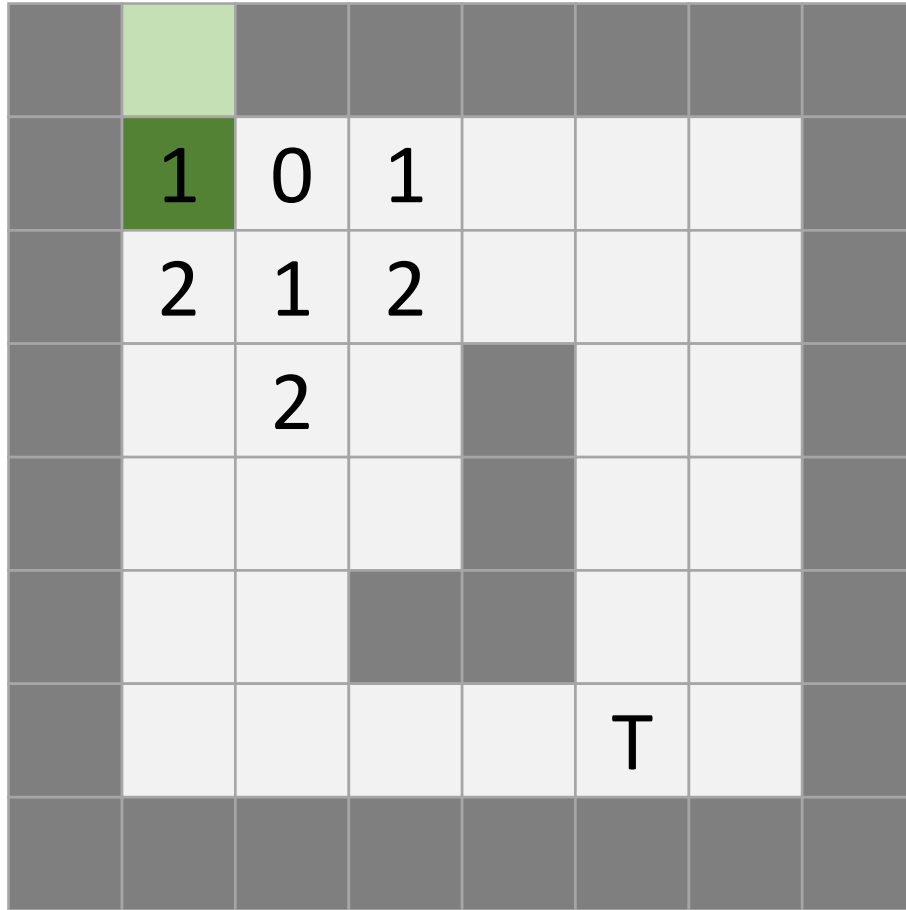
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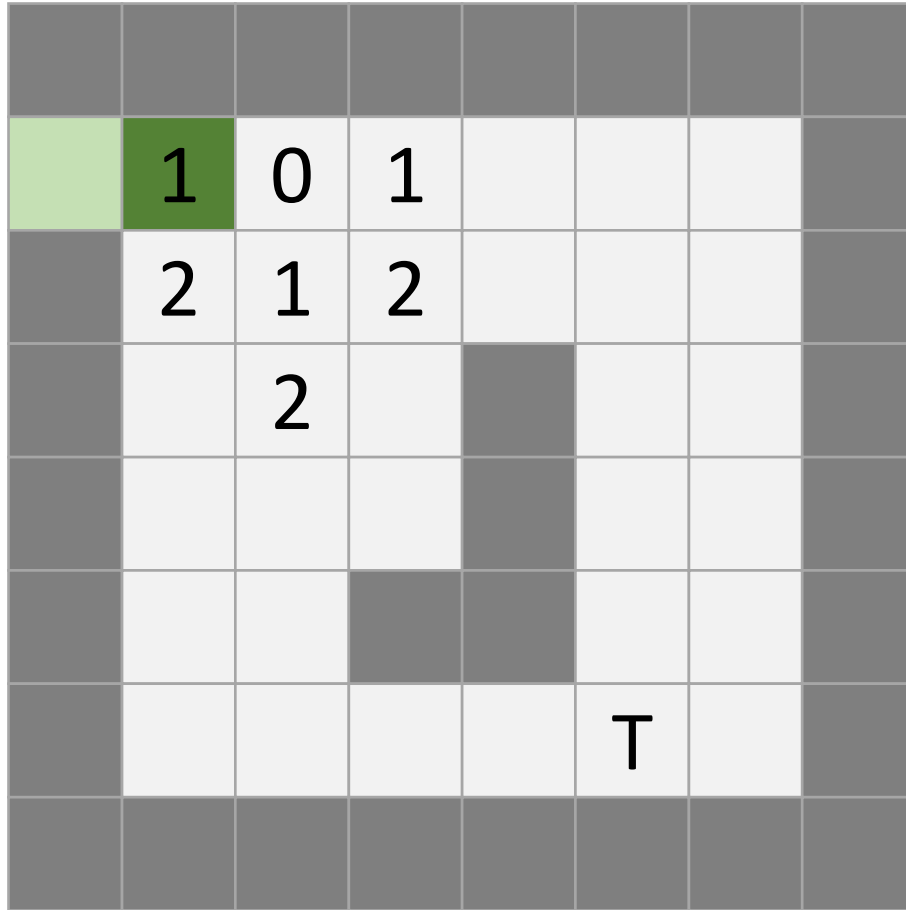
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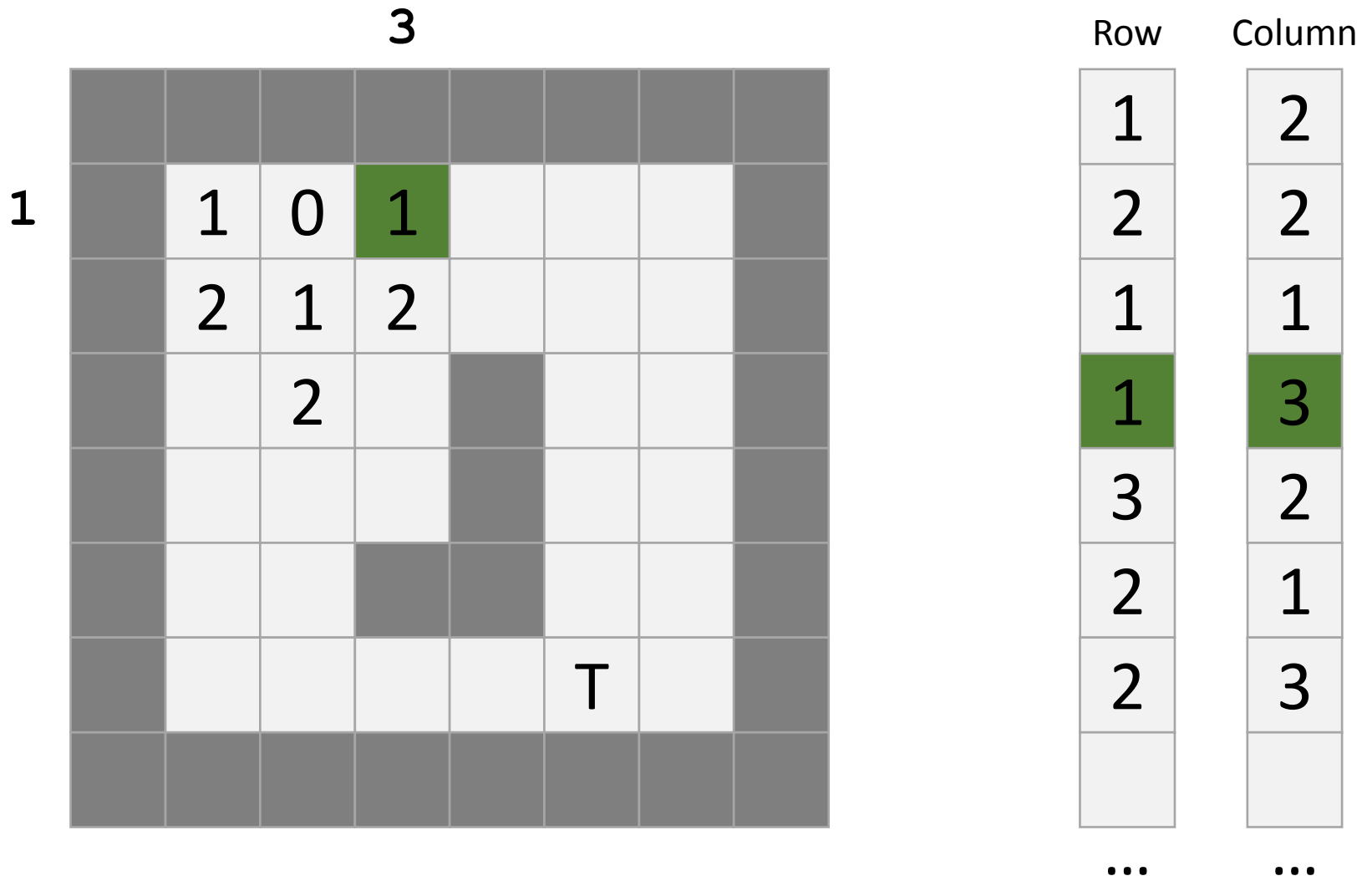
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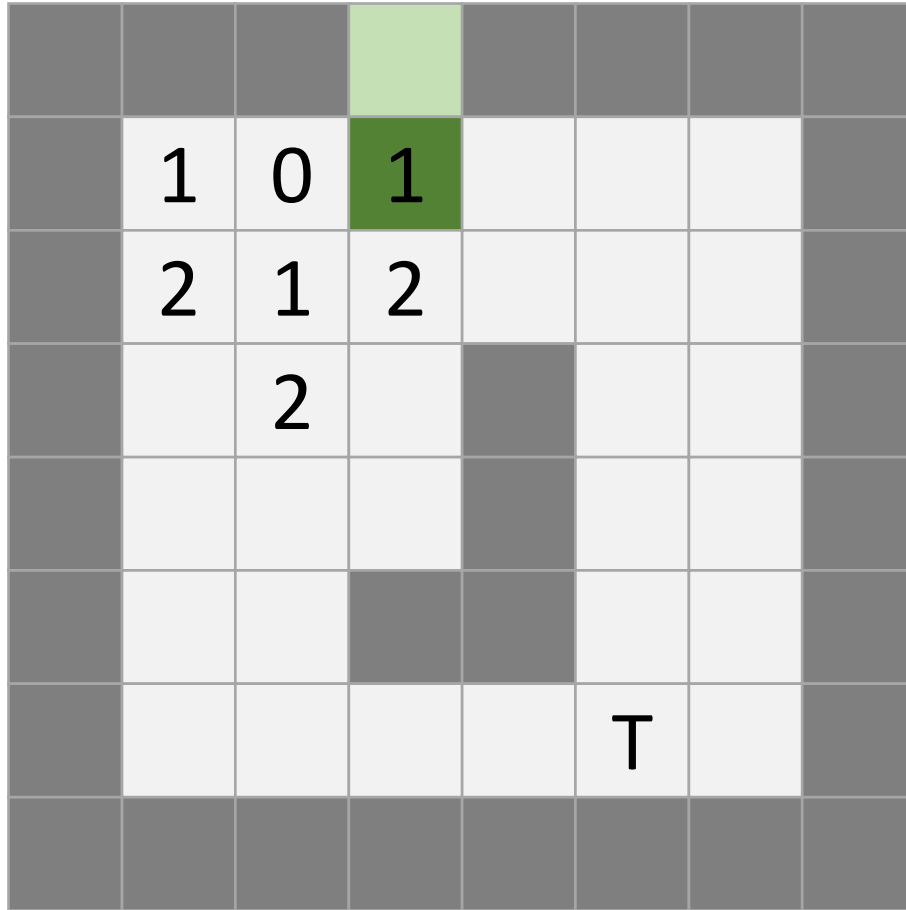
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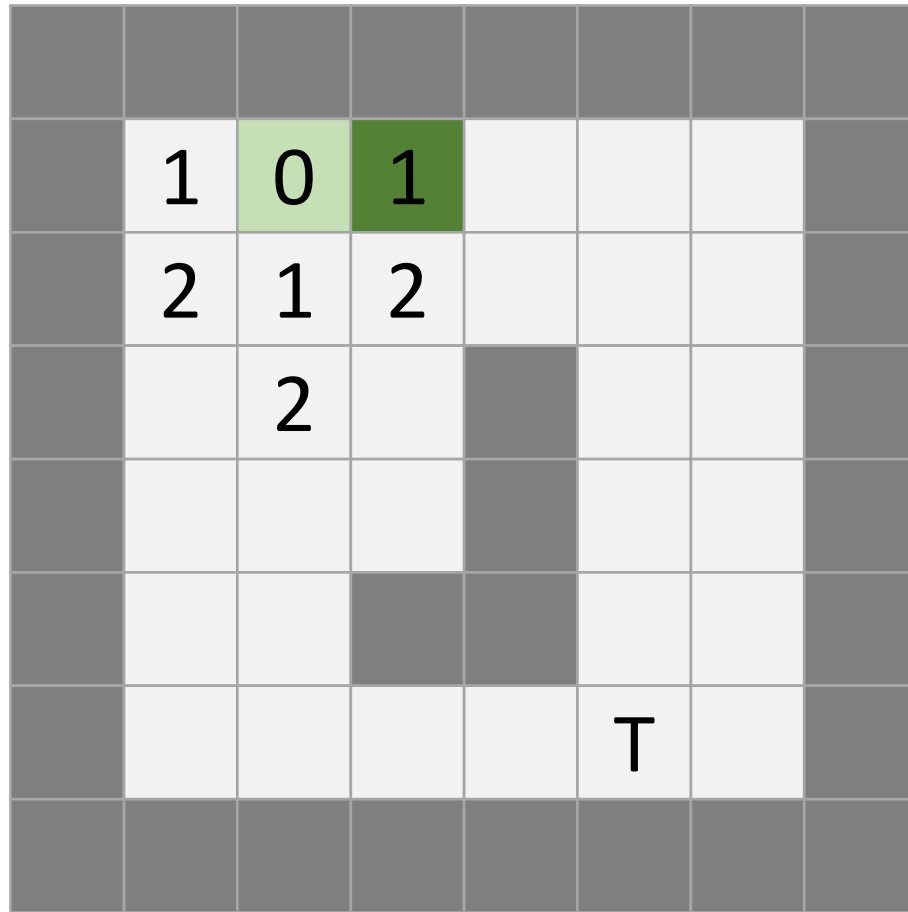
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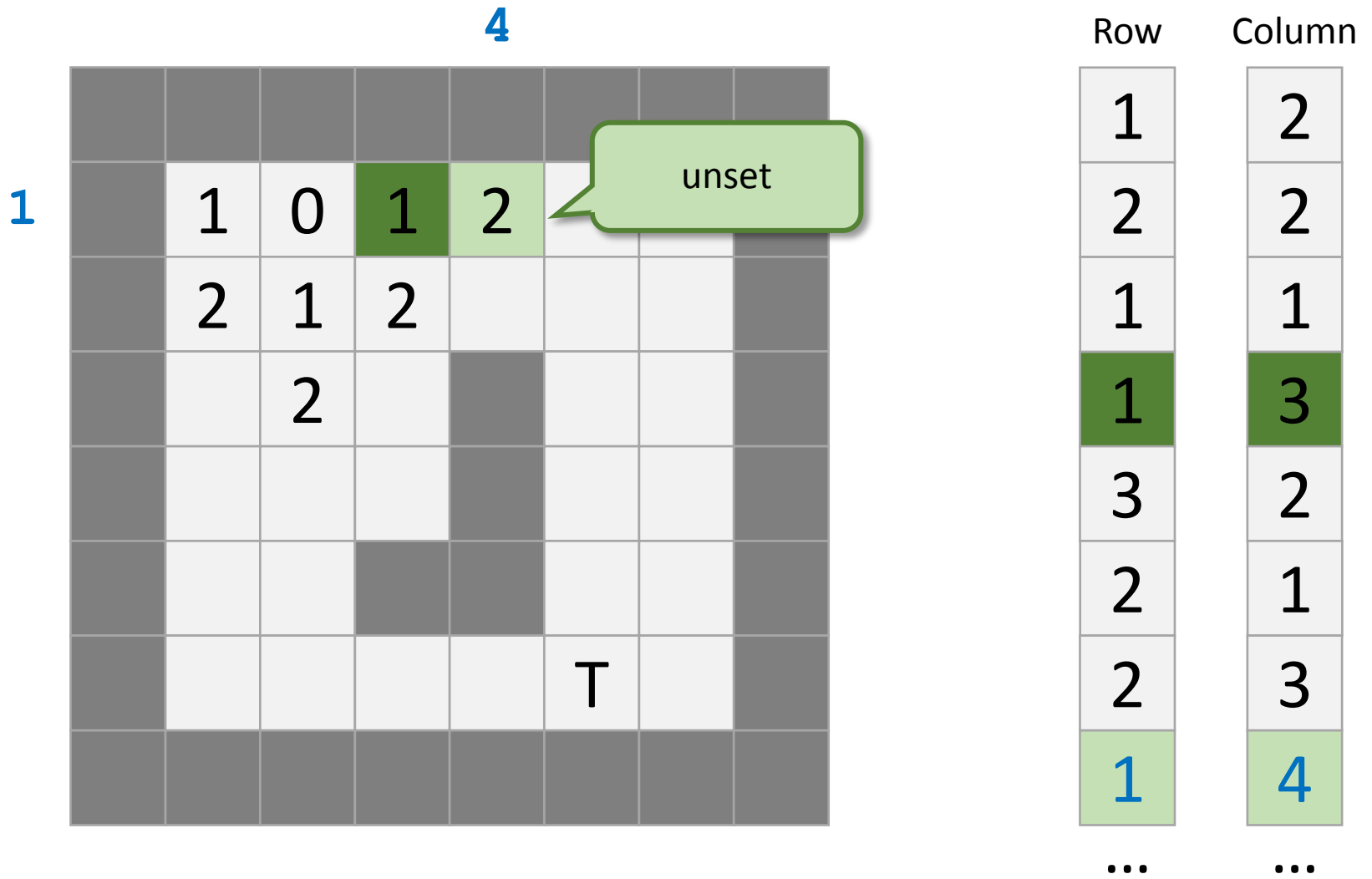
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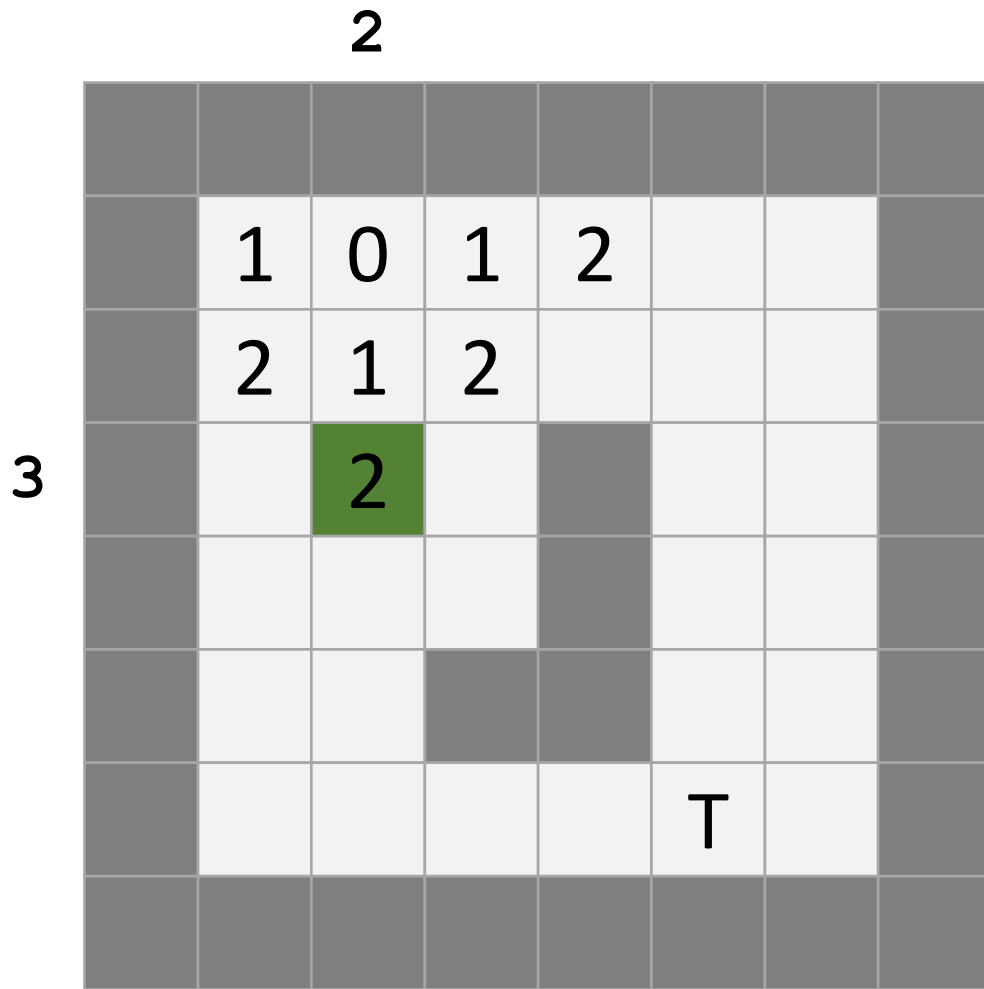


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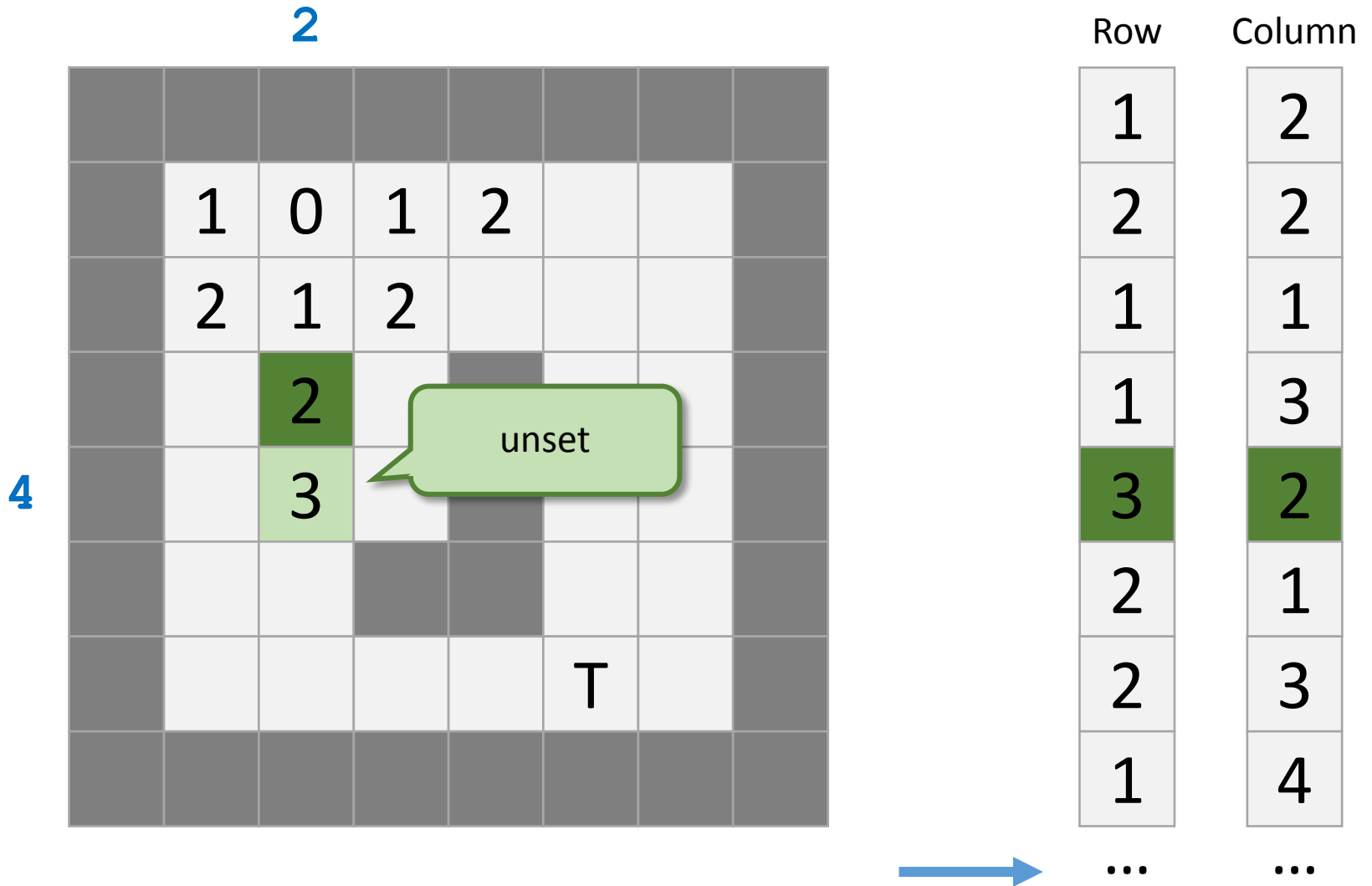
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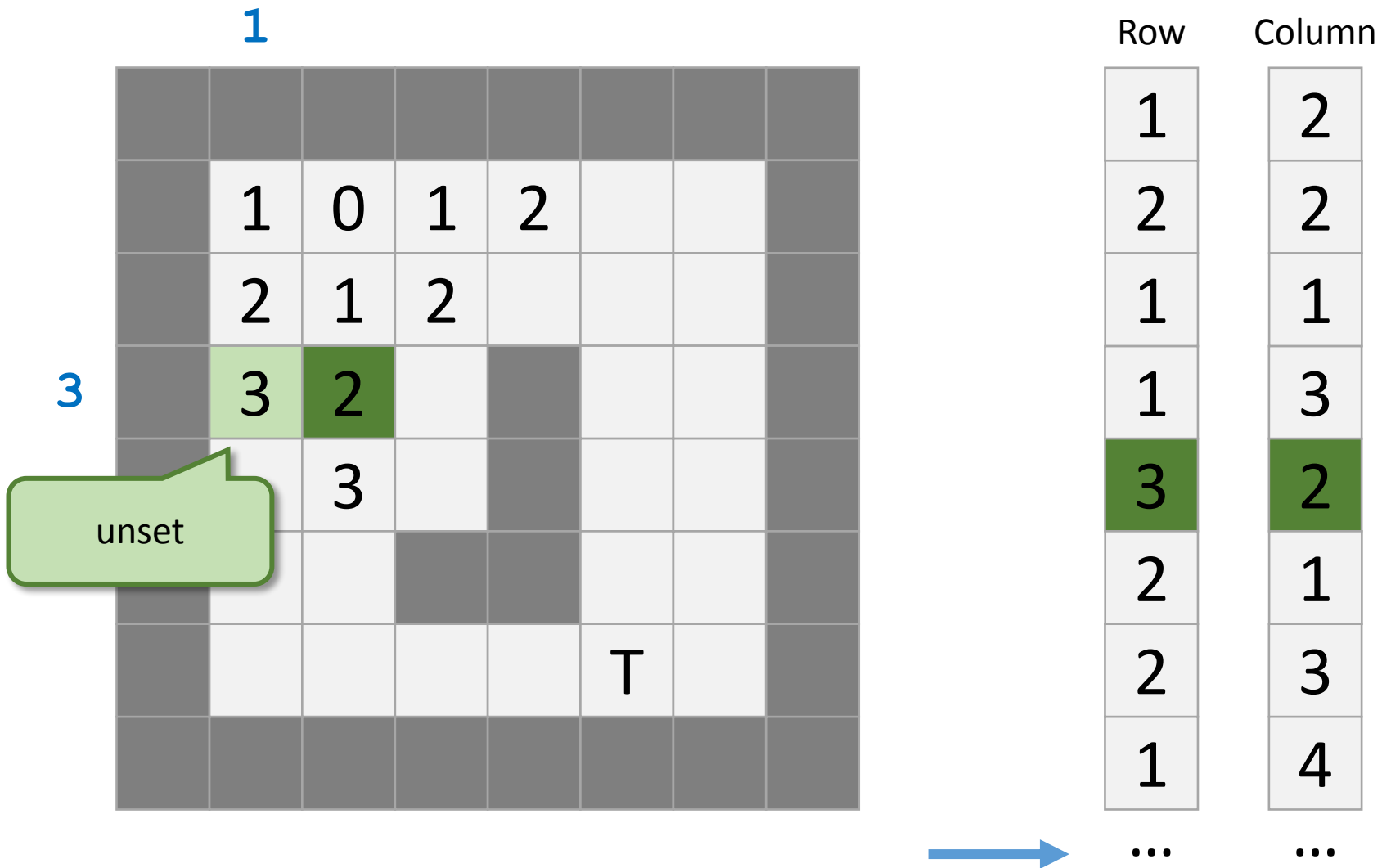
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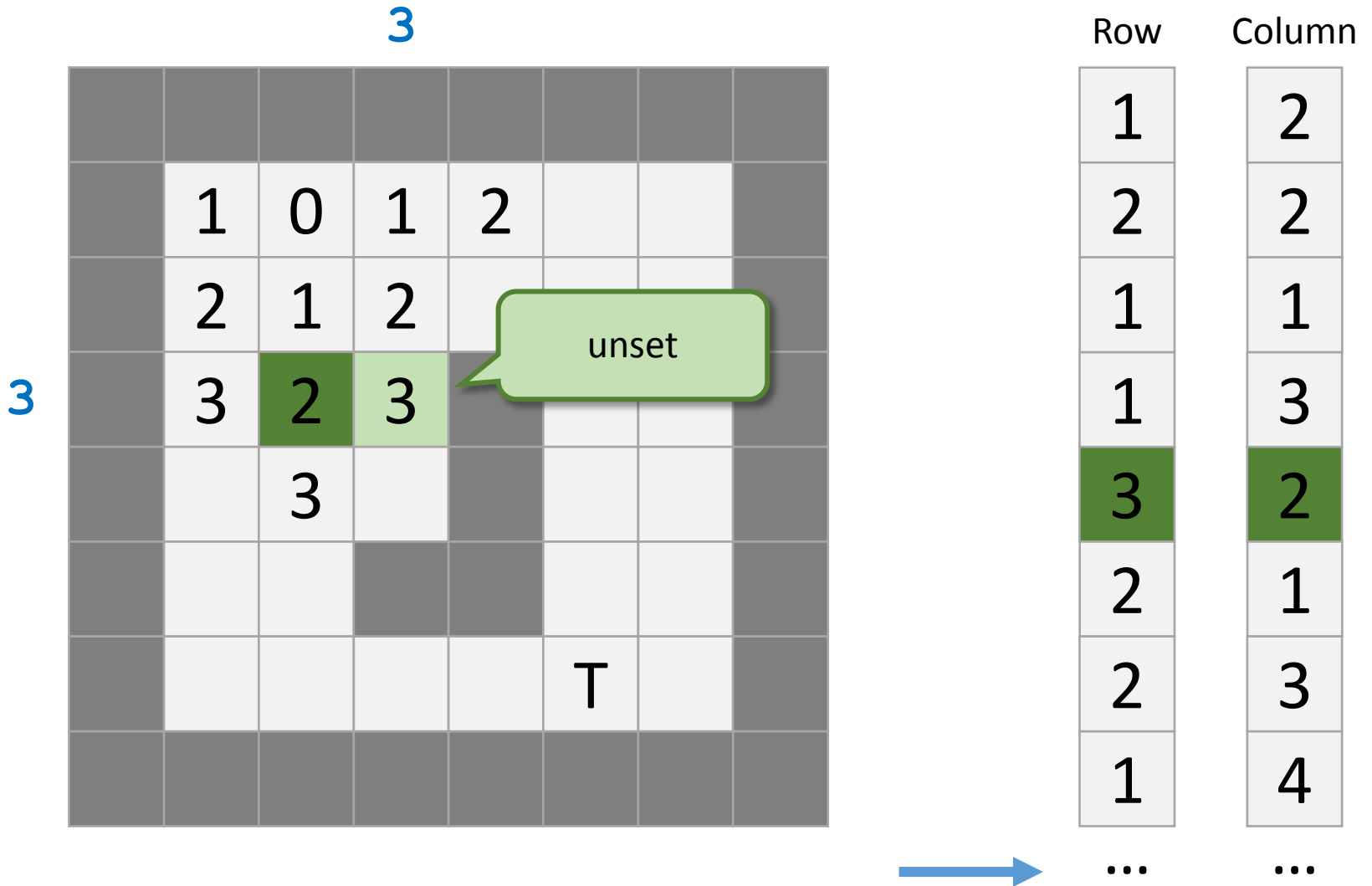
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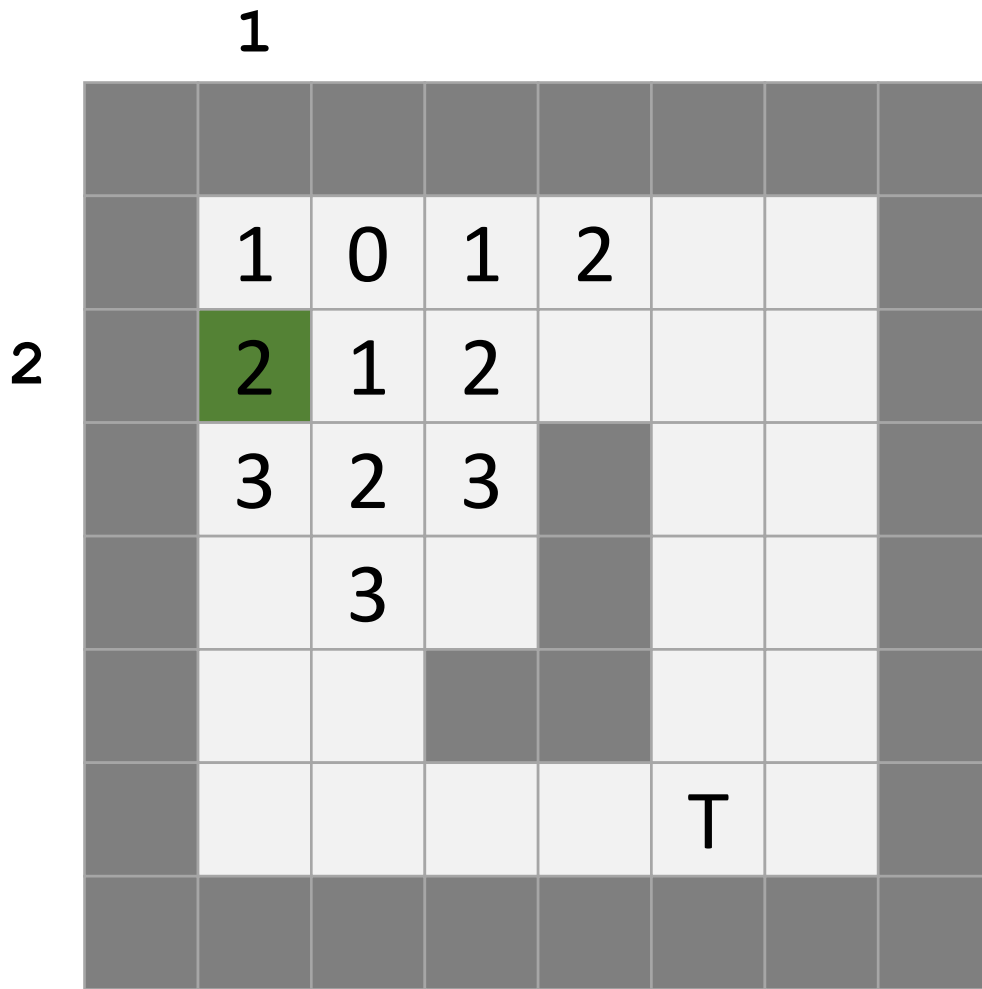
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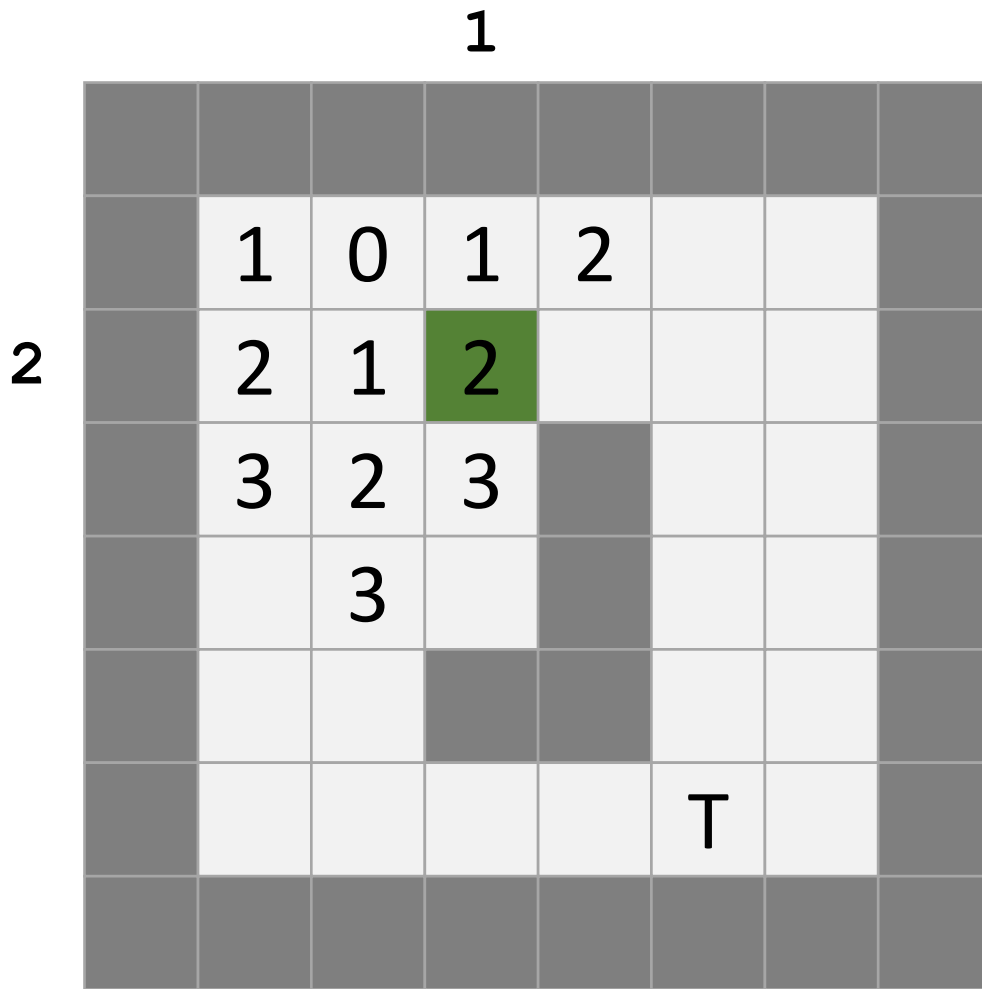
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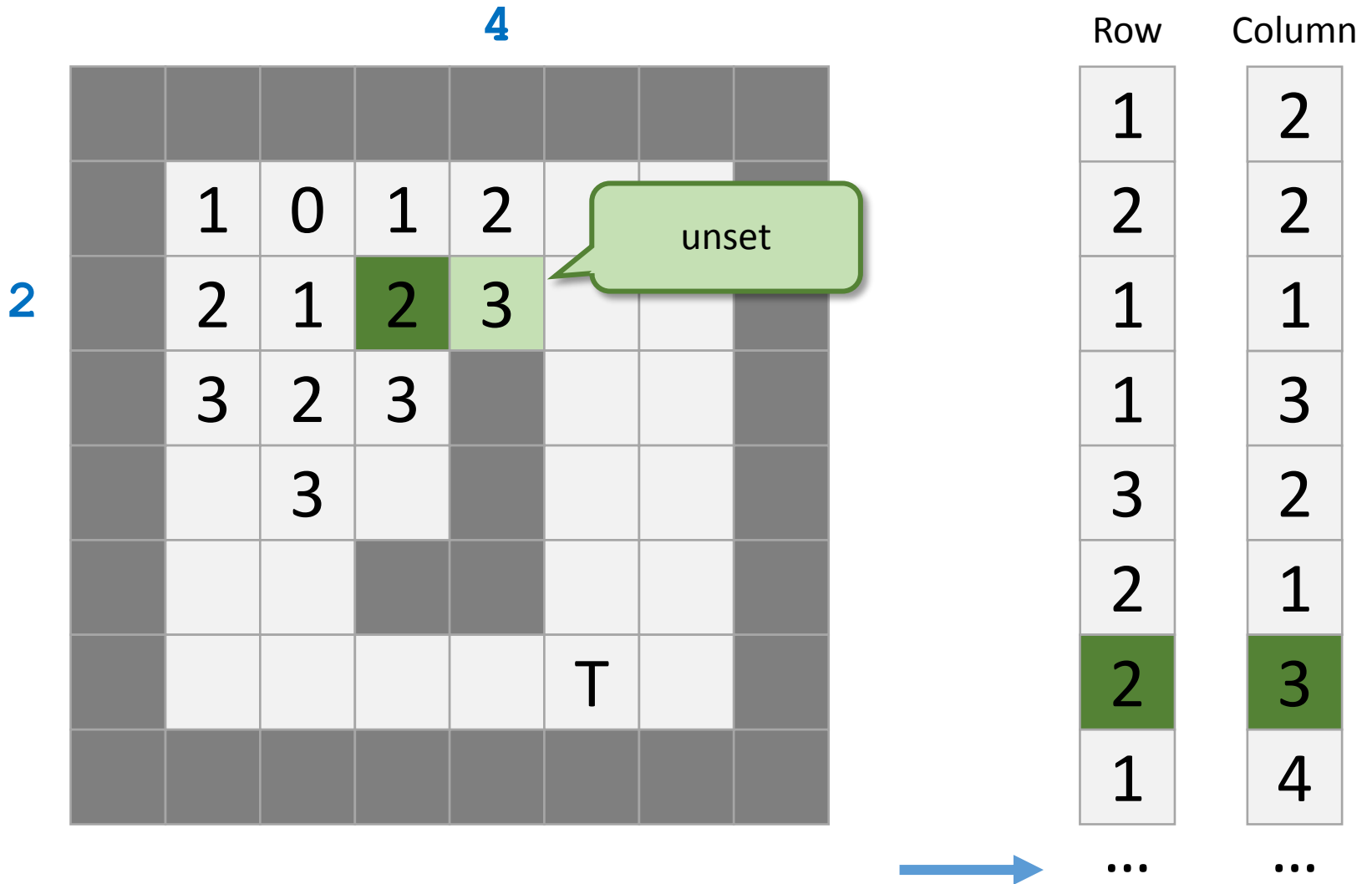
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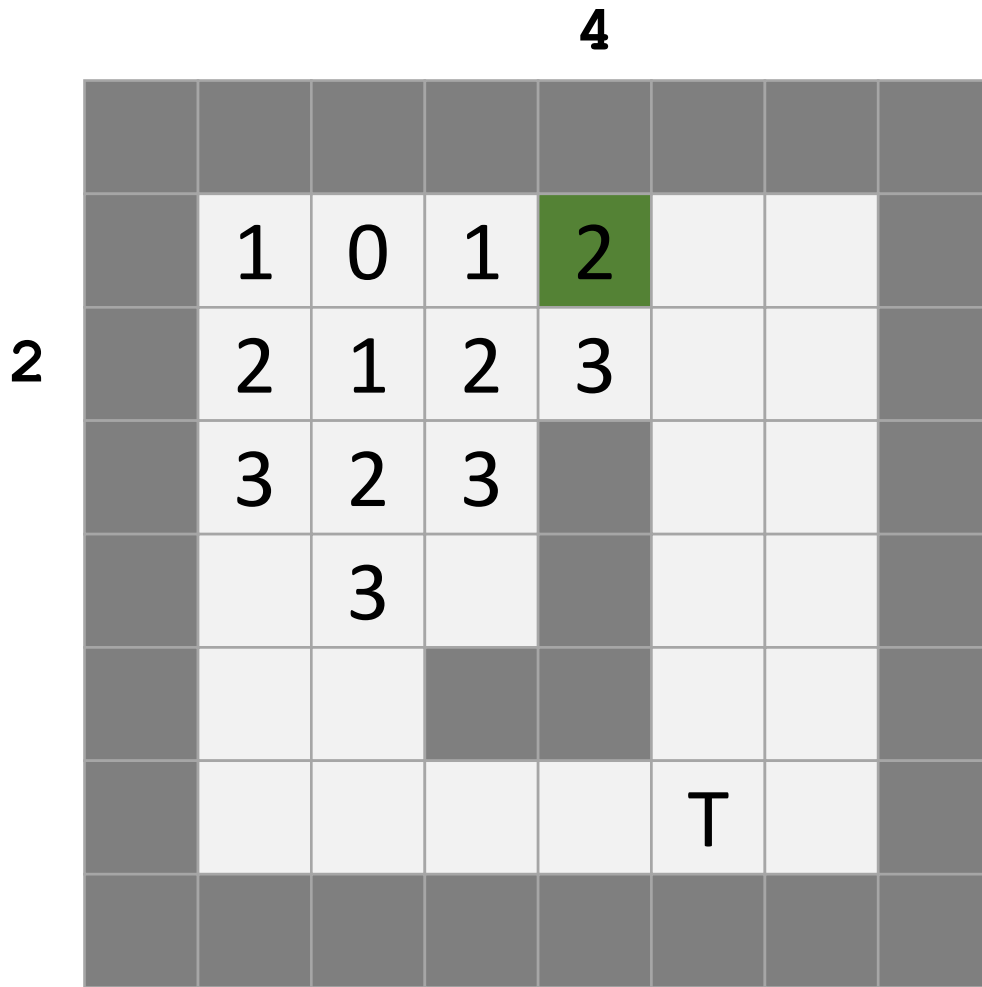
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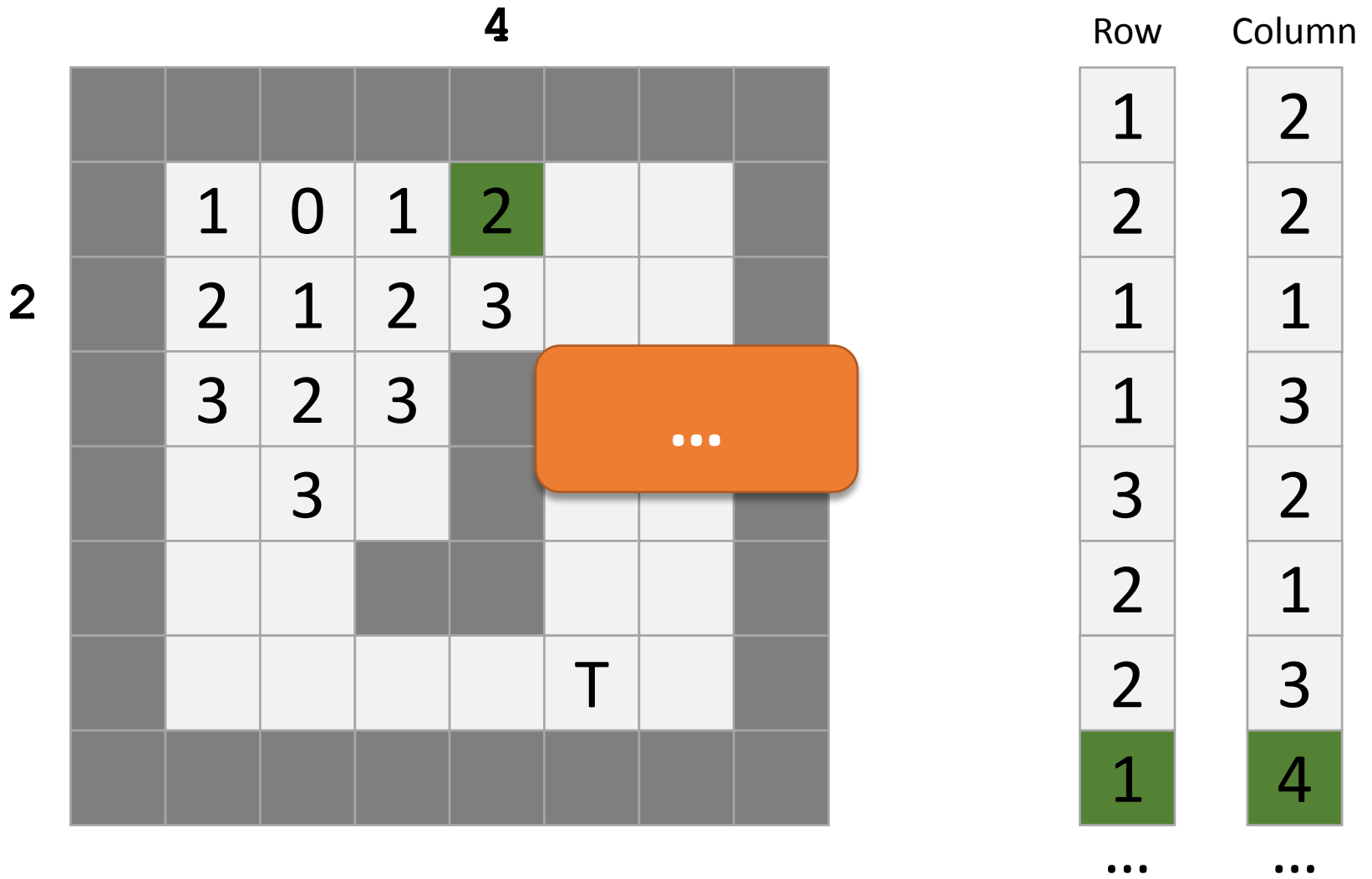


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