

Prompt	Scratchpad	Our Solution(s)	Video Explanation	Run Code
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Solution 1	Solution 2	Solution 3	Solution 4
<pre>1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved. 2 3 // O(n^4) time   O(1) space - where n is the height and width of the matrix 4 ▾ function squareOfZeroes(matrix) { 5     const n = matrix.length; 6     ▾ for (let topRow = 0; topRow &lt; n; topRow++) { 7         ▾ for (let leftCol = 0; leftCol &lt; n; leftCol++) { 8             let squareLength = 2; 9             ▾ while (squareLength &lt;= n - leftCol &amp;&amp; squareLength &lt;= n - topRow) { 10                 const bottomRow = topRow + squareLength - 1; 11                 const rightCol = leftCol + squareLength - 1; 12                 if (isSquareOfZeroes(matrix, topRow, leftCol, bottomRow, rightCol)) return true; 13                 squareLength++; 14             } 15         } 16     } 17     return false; 18 } 19 20 // r1 is the top row, c1 is the left column 21 // r2 is the bottom row, c2 is the right column 22 ▾ function isSquareOfZeroes(matrix, r1, c1, r2, c2) { 23     ▾ for (let row = r1; row &lt; r2 + 1; row++) { 24         if (matrix[row][c1] !== 0    matrix[row][c2] !== 0) return false; 25     } 26     ▾ for (let col = c1; col &lt; c2 + 1; col++) { 27         if (matrix[r1][col] !== 0    matrix[r2][col] !== 0) return false; 28     } 29     return true; 30 } 31 32 exports.squareOfZeroes = squareOfZeroes; 33</pre>			

