|  |  |
| --- | --- |
| Interviews |  |
| You have two eggs, test dropping height  At which height will the egg break (you only have two eggs) | MS |
| MS word correction, replacement suggestions   1. correction   Hashset or Trie to hold all words   1. replacement  * Edit distance * Longest common prefix * Context (probability of word showing up or before another word) * Use machine learning to determine the weights of each of the above 3 factors | MS |
| How many barbers are there in Alexandria?! |  |

|  |  |
| --- | --- |
| Arrays |  |
| Solve prefix, postfix, Prefix to postfix  Infix to postfix (solve infix) | link |
| Jump Game I, II | link |
|  | link |

|  |  |
| --- | --- |
| Matrix |  |
| Kth smallest element in sorted matrix | [Link](https://www.programcreek.com/2016/08/leetcode-kth-smallest-element-in-a-sorted-matrix-java/) |
|  | link |
|  | link |

|  |  |
| --- | --- |
| Binary Trees |  |
| BST - Distance between two nodes  BST - nodes at distance k from given node | link |
| Morris Traversal | [link](https://www.geeksforgeeks.org/inorder-tree-traversal-without-recursion-and-without-stack/) |
|  | link |

|  |  |
| --- | --- |
| Maths |  |
| pow(x,n) | link |
| sqrt(n) | link |
| Random number generator (5 to 7) | link |