



Google INTERVIEW QUESTIONS



MEETING ROOMS II

Given an array of meeting time intervals **intervals** where **intervals[i] = [starti, endi]**, return the minimum number of conference rooms required.

Example:

Input: intervals = [[0,30],[5,10],[15,20]]

Output: 2

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LONGEST INCREASING PATH IN A MATRIX

Given an $m \times n$ integers matrix, return the length of the longest increasing path in matrix.

From each cell, you can either move in four directions: left, right, up, or down. You **may not move diagonally or move outside the boundary** (i.e., wrap-around is not allowed).

Example:

9	9	4
6	6	8
2	1	1

Input: matrix = [[9,9,4],[6,6,8],[2,1,1]]
Output: 4

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SENTENCE SCREEN FITTING

Given a **rows x cols** screen and a **sentence** represented as a list of strings, return the number of times the given sentence can be fitted on the screen.

The order of words in the sentence must remain unchanged, and a word cannot be split into two lines. A single space must separate two consecutive words in a line.

Example:

```
Input: sentence = ["hello","world"], rows = 2, cols = 8
Output: 1
```

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SWAP ADJACENT IN LR STRING

In a string composed of 'L', 'R', and 'X' characters, like "RXXLRXRXL", a move consists of either replacing one occurrence of "XL" with "LX", or replacing one occurrence of "RX" with "XR". Given the starting string **start** and the ending string **end**, return **True** if and only if there exists a sequence of moves to transform one string to the other.

Example:

Input: start = "RXXLRXRXL", end = "XRLXXRRLX"
Output: true

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STRINGS DIFFER BY ONE CHARACTER

Given a list of strings **dict** where all the strings are of the same length.

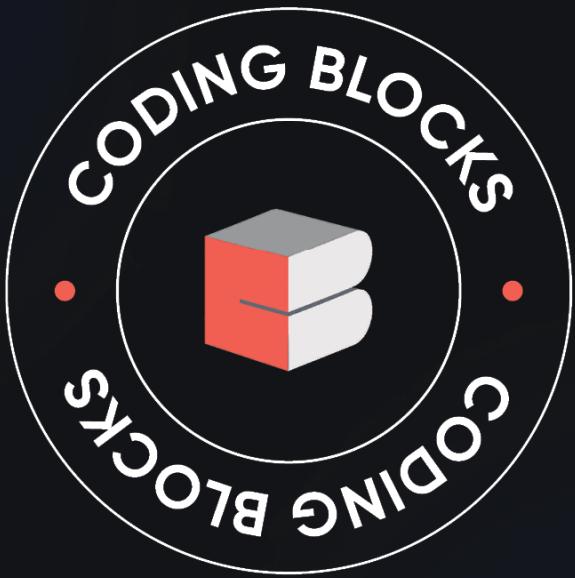
Return **true** if there are 2 strings that only differ by 1 character in the same index, otherwise return **false**.

Example:

Input: dict = ["abcd", "acbd", "aacd"]

Output: true

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