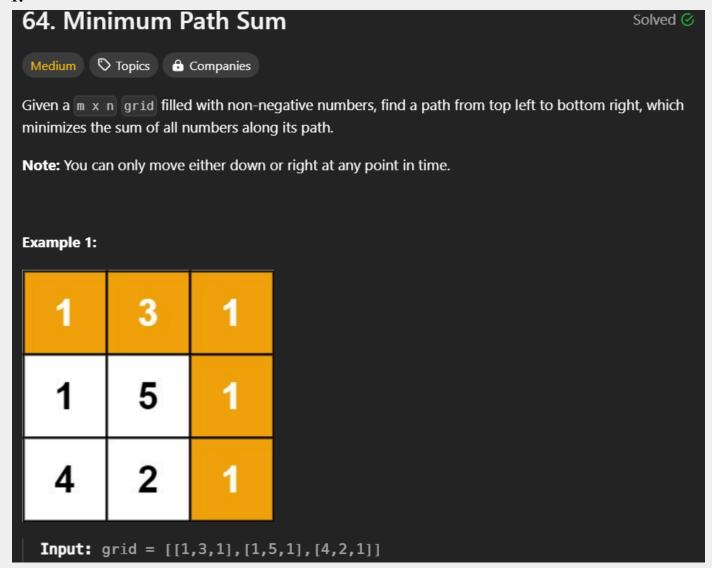
1.



class Solution (

```
public int minPathSum(int[][] grid) {
    int m = grid.length, n = grid[0].length;
    for (int j = 1; j < n; j++) {
        grid[0][j] += grid[0][j - 1];
    }
    for (int i = 1; i < m; i++) {
        grid[i][0] += grid[i - 1][0];
    }
    for (int i = 1; i < m; i++) {
        for (int j = 1; j < n; j++) {
            grid[i][j] += Math.min(grid[i - 1][j], grid[i][j - 1]);
        }
    }
}
return grid[m - 1][n - 1];
}</pre>
```

45. Jump Game II

Solved 🕜

You are given a **0-indexed** array of integers nums of length n. You are initially positioned at nums [0].

Each element nums [i] represents the maximum length of a forward jump from index i. In other words, if you are at nums [i], you can jump to any nums [i + j] where:

- 0 <= j <= nums[i] and
- [i + j < n]

Return the minimum number of jumps to reach [n-1]. The test cases are generated such that you can reach [n-1].

Example 1:

```
Input: nums = [2,3,1,1,4]
Output: 2
Explanation: The minimum number of jumps to reach the last index is 2.
Jump 1 step from index 0 to 1, then 3 steps to the last index.
```

```
class Solution {
   public int jump(int[] nums) {
      int near = 0, far = 0, jumps = 0;

      while (far < nums.length - 1) {
        int farthest = 0;
        for (int i = near; i <= far; i++) {
            farthest = Math.max(farthest, i + nums[i]);
        }
        near = far + 1;
        far = farthest;
        jumps++;
    }

    return jumps;
}</pre>
```

49. Group Anagrams Medium ○ Topics ♠ Companies Given an array of strings strs, group the anagrams together. You can return the answer in any order. Example 1: Input: strs = ["eat", "tea", "tan", "ate", "nat", "bat"] Output: [["bat"], ["nat", "tan"], ["ate", "eat", "tea"]] Explanation: • There is no string in strs that can be rearranged to form "bat". • The strings "nat" and "tan" are anagrams as they can be rearranged to form each other. • The strings "ate", "eat", and "tea" are anagrams as they can be rearranged to form each other.

```
class Solution {
   public List<List<String>> groupAnagrams(String[] strs) {
        Map<String, List<String>> ans = new HashMap<>();

        for (String s : strs) {
            char[] chars = s.toCharArray();
            Arrays.sort(chars);
            String key = new String(chars);
            if (!ans.containsKey(key)) {
                 ans.put(key, new ArrayList<>());
            }
            ans.get(key).add(s);
        }

        return new ArrayList<>(ans.values());
    }
}
```

```
91. Decode Ways

Medium © Topics & Companies

You have intercepted a secret message encoded as a string of numbers. The message is decoded via the following mapping:

"1" → 'A'

"2" → 'B'

"25" → 'Y'

"26" → 'Z'

However, while decoding the message, you realize that there are many different ways you can decode the message because some codes are contained in other codes ("2" and "5" vs "25").

For example, "11106" can be decoded into:

"AAJF" with the grouping (1, 1, 10, 6)

"KJF" with the grouping (1, 11, 06) is invalid because "06" is not a valid code (only "6" is valid).

Note: there may be strings that are impossible to decode.
```

```
class Solution {
   public int numDecodings(String s) {
        int strLen = s.length();
        int[] dp = new int[strLen + 1];
        dp[0] = 1;
        if (s.charAt(0) != '0') {
            dp[1] = 1;
        } else {
            return 0;
        for (int i = 2; i <= strLen; ++i) {</pre>
            if (s.charAt(i - 1) != '0') {
                dp[i] += dp[i - 1];
            if (s.charAt(i - 2) == '1' || (s.charAt(i - 2) == '2' && s.charAt(i - 1)
<= '6')) {
                dp[i] += dp[i - 2];
        return dp[strLen];
```

Input: prices = [1,2,3,4,5]

Output: 4

Total profit is 4.

Explanation: Buy on day 1 (price = 1) and sell on day 5 (price = 5), profit = 5-1 =

```
class Solution {
    public int maxProfit(int[] prices) {
        int profit = 0;

        for (int i = 1; i < prices.length; i++) {
            if (prices[i] > prices[i - 1]) {
                profit += prices[i] - prices[i - 1];
            }
        }
        return profit;
    }
}
```