

PA10

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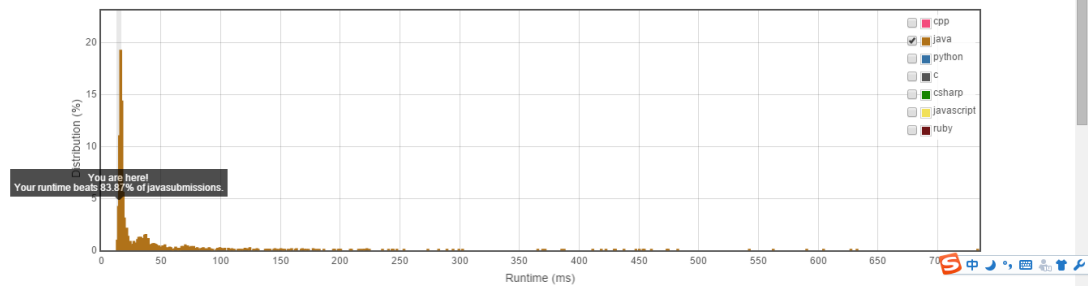
137 / 137 test cases passed.

Runtime: 15 ms

Status: Accepted

Submitted: 2 days, 13 hours ago

Accepted Solutions Runtime Distribution



Invite friends to challenge Longest Increasing Path in a Matrix !

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Submitted Code

Code : Java

```
1 public class Solution {
2     public int longestIncreasingPath(int[][] matrix) {
3
4         if(matrix.length<=0 || matrix[0].length <=0) return 0;
5         int max=0, n = matrix.length, m = matrix[0].length;
6         int [][] cache = new int[n][m];
7         for(int i=0;i<matrix.length;i++){
8             for(int j=0;j<matrix[0].length;j++){
9                 max = Math.max(max, maxLen(matrix, Integer.MIN_VALUE, i, j, cache));
10            }
11        }
12        return max;
13    }
14    public int maxLen(int[][] matrix, int min, int r, int c, int[][] cache) {
15        if(r<0 || c<0 || r>=matrix.length || c>= matrix[0].length) {
16            return 0;
17        }
18        if(matrix[r][c] <= min) {
19            return 0;
20        }
21        if(cache[r][c] != 0) {
22            return cache[r][c];
23        }
24        min = matrix[r][c];
25        int up = maxLen(matrix, min, r-1, c, cache) + 1;
26        int left = maxLen(matrix, min, r, c-1, cache) + 1;
27        int right = maxLen(matrix, min, r, c+1, cache) + 1;
28        int down = maxLen(matrix, min, r+1, c, cache) + 1;
29        cache[r][c] = Math.max(up, Math.max(left, Math.max(right,down)));
30        return cache[r][c];
31    }
32 }
33 }
```