

Maximum Strictly Increasing Cells in a Matrix (/problems/maximum-strictly-increasing-cells-in-a-matrix/)

Submission Detail

564 / 564 test cases passed.

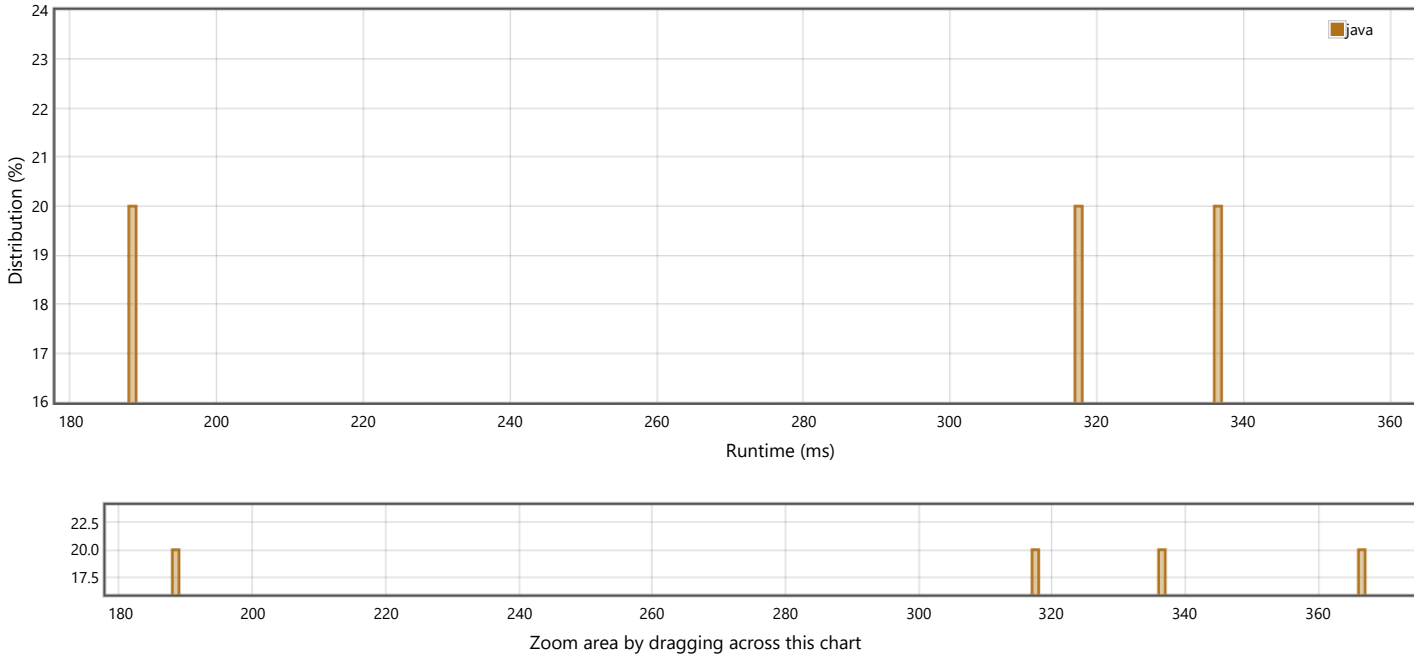
Runtime: 149 ms

Memory Usage: 81.8 MB

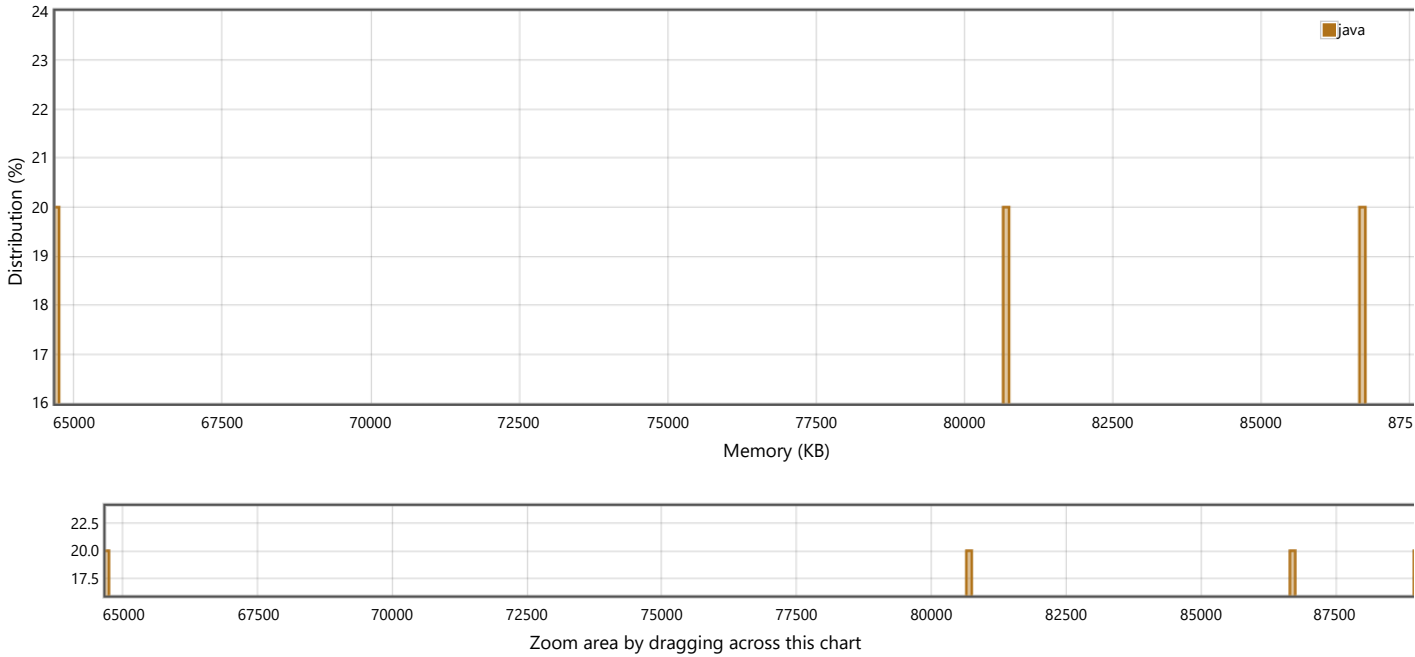
Status: Accepted

Submitted: 27 minutes ago

Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution



Invite friends to challenge **Maximum Strictly Increasing Cells in a Matrix**

Submitted Code: 27 minutes ago

Language: java

Edit Code

```
1 class Solution {
```

```


2    public int maxIncreasingCells(int[][] mat) {
3        int r = mat.length;
4        int c = mat[0].length;
5        int[] row = new int[r];
6        int[] col = new int[c];
7        int ans = 0;
8        List<int[]> arr = new ArrayList<>();
9
10       for (int i = 0; i < r; i++) {
11           for (int j = 0; j < c; j++) {
12               arr.add(new int[]{mat[i][j], i, j});
13           }
14       }
15
16       Collections.sort(arr, (a, b) -> Integer.compare(a[0], b[0]));
17       Queue<int[]> qu = new LinkedList<>();
18
19       for (int[] itr : arr) {
20           while (!qu.isEmpty()) {
21               int[] cur = qu.peek();
22               if (cur[0] < itr[0]) {
23                   row[cur[1]] = Math.max(row[cur[1]], cur[3]);
24                   col[cur[2]] = Math.max(col[cur[2]], cur[3]);
25                   qu.poll();
26               } else {
27                   break;
28               }
29           }
30
31           int cur = Math.max(row[itr[1]], col[itr[2]]) + 1;
32           ans = Math.max(ans, cur);
33           qu.offer(new int[]{itr[0], itr[1], itr[2], cur});
34       }
35
36       return ans;
37   }
}

```

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