Maximum Number of Fish in a Grid (/contest/biweekly-contest-103/problems/maximum-number-of-fish-in-a-grid/)

Submission Detail

3842 / 3842 test cases passed.

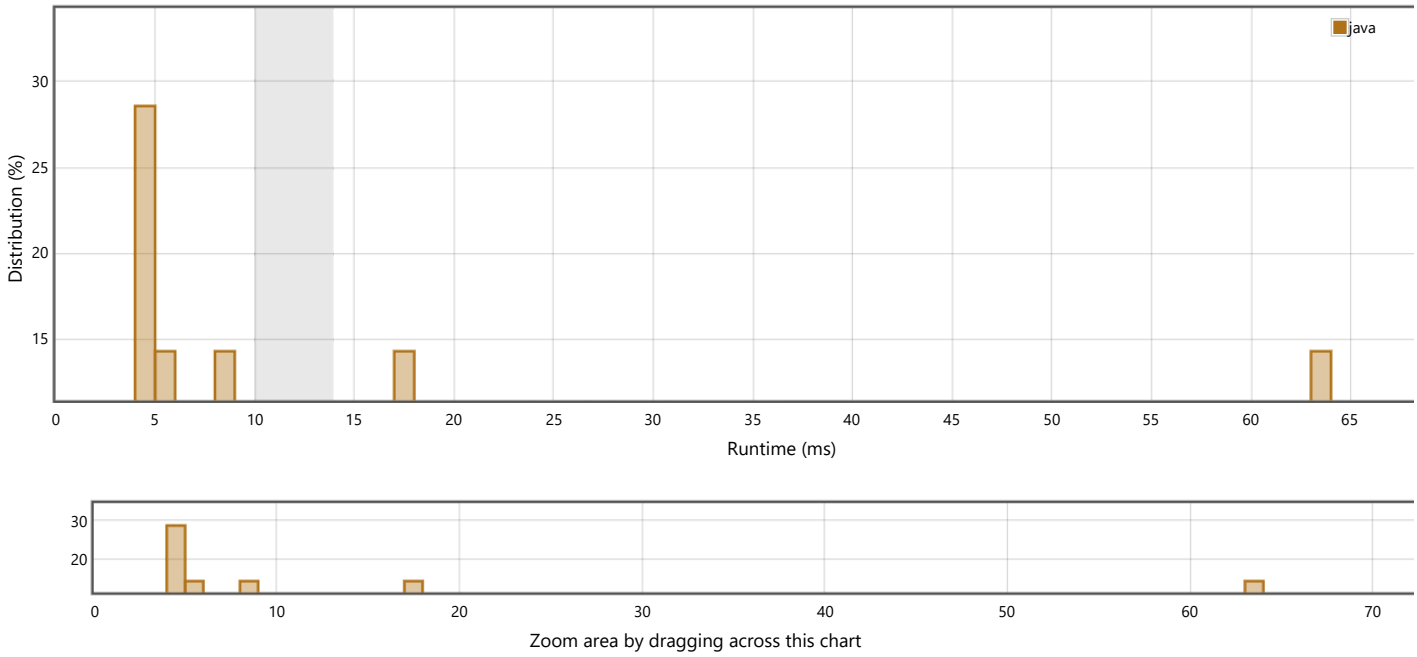
Status: **Accepted**

Runtime: **12 ms**

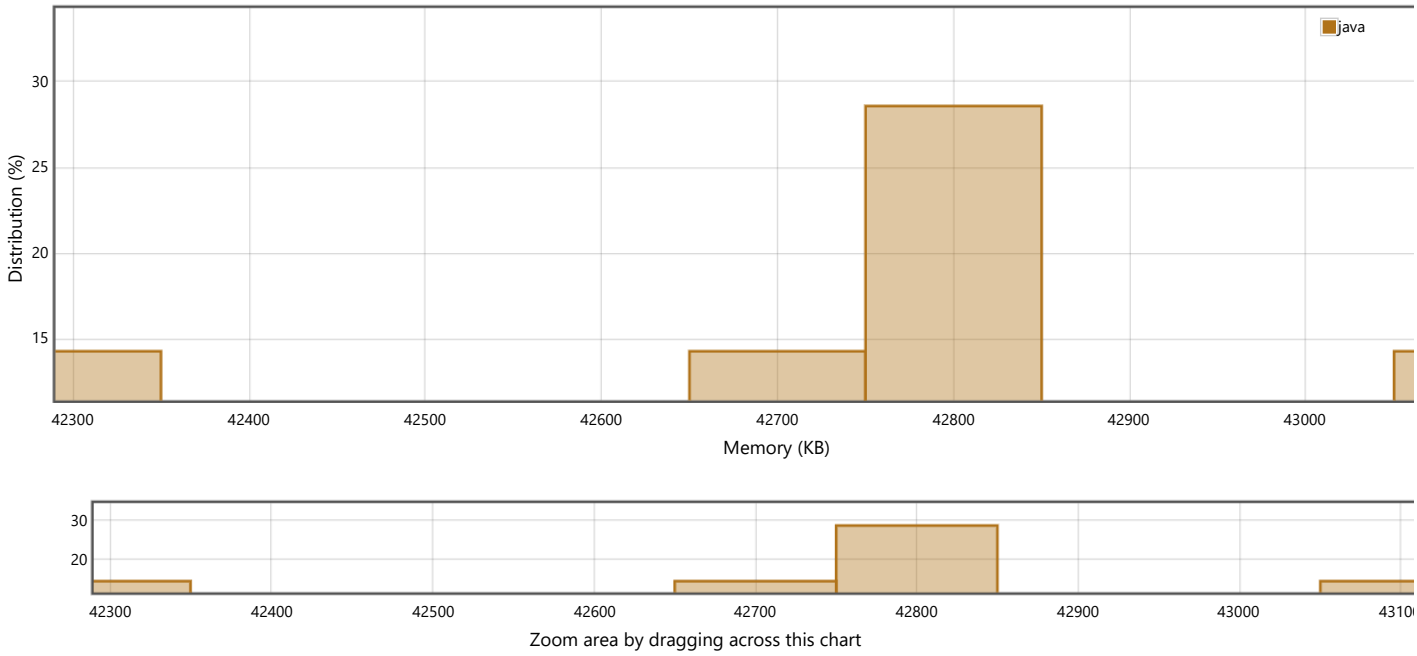
Memory Usage: **43.1 MB**

Submitted: **12 hours, 39 minutes ago**

Accepted Solutions Runtime Distribution



Accepted Solutions Memory Distribution



Invite friends to challenge **Maximum Number of Fish in a Grid**

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Submitted Code: 12 hours, 39 minutes ago

Language: java

Edit Code

```
1  class Solution {
```

```
    public int findMaxFish(int[][] grid) {

        int m = grid.length;
        int n = grid[0].length;
        int maxFish = 0;
        for (int i = 0; i < m; i++) {
            for (int j = 0; j < n; j++) {
                if (grid[i][j] > 0) { // start from water cell
                    int fishCount = grid[i][j];
                    grid[i][j] = 0; // catch the fish at the current cell
                    int[][] dist = new int[m][n]; // distance from the current cell
                    Queue<int[]> queue = new LinkedList<>();
                    queue.offer(new int[]{i, j});
                    int[][] dirs = {{-1, 0}, {1, 0}, {0, -1}, {0, 1}};
                    while (!queue.isEmpty()) {
                        int[] cur = queue.poll();
                        for (int[] dir : dirs) {
                            int ni = cur[0] + dir[0];
                            int nj = cur[1] + dir[1];
                            if (ni >= 0 && ni < m && nj >= 0 && nj < n && grid[ni][nj] > 0 && dist[ni][nj] == 0) {
                                fishCount += grid[ni][nj]; // catch the fish at the new cell
                                grid[ni][nj] = 0;
                                dist[ni][nj] = dist[cur[0]][cur[1]] + 1;
                                queue.offer(new int[]{ni, nj});
                            }
                        }
                    }
                    maxFish = Math.max(maxFish, fishCount);
                    grid[i][j] = fishCount; // restore the grid
                }
            }
        }
        return maxFish;
    }
}
```

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