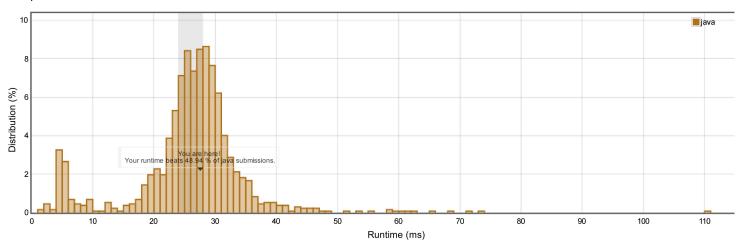
Submission Details

96 / 96 test cases passed.

Runtime: 26 ms

Status: Accepted
Submitted: 1 hour, 23 minutes ago

Accepted Solutions Runtime Distribution



Invite friends to challenge Largest Rectangle in Histogram!

<17

Submitted Code: 1 hour, 23 minutes ago

Language: java Edit Code

```
public class Solution {
         public int largestRectangleArea(int[] heights) {
             heights = Arrays.copyOf(heights, heights.length + 1);
Stack<Integer> positionsStack = new Stack<>();
             Stack<Integer> heightsStack = new Stack<>();
             int index = 0;
 6
             int maxSquare = 0;
             for (int value : heights) {
   if ((value > 0) && (heightsStack.isEmpty() || heightsStack.peek() < value)) {</pre>
 8
                      heightsStack.add(value);
10
                      positionsStack.add(index);
11
12
                  } else {
                      Integer lastHeight = null;
13
                      Integer lastPosition = null;
14
                      while (!heightsStack.isEmpty() && heightsStack.peek() > value) {
15
16
                           lastHeight = heightsStack.pop();
17
                           lastPosition = positionsStack.pop();
18
                           // height before current
19
                           int rectangleSquare = lastHeight * (index - lastPosition);
20
                           if (maxSquare < rectangleSquare) {</pre>
21
                               maxSquare = rectangleSquare;
22
23
24
                       // adding new previous max possible height and start position
25
                          (lastHeight != null) {
26
                           heightsStack.add(value);
27
                           positionsStack.add(lastPosition);
28
29
30
                  index++;
31
32
             return maxSquare;
33
         }
34
```

Back to problem (/problems/largest-rectangle-in-histogram/)

Privacv

Copyright © 2017 LeetCode