Our Solution(s)

Run Code

Your Solutions

14рх

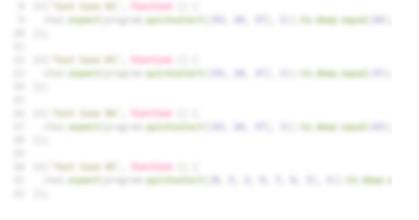
Run Code

```
Solution 1
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 3 // Best: O(n) time | O(1) space
 4 // Average: O(n) time | O(1) space
 5 // Worst: O(n^2) time | O(1) space
 6 function quickselect(array, k) {
     const position = k - 1;
     return quickselectHelper(array, 0, array.length - 1, position);
9 }
10
11 function quickselectHelper(array, startIdx, endIdx, position) \{
12
     while (true) {
13
        if (startIdx > endIdx) {
14
         throw new Error('Your algorithm should never arrive here!');
15
16
       const pivotIdx = startIdx;
17
        let leftIdx = startIdx + 1;
        let rightIdx = endIdx;
18
19
        while (leftIdx <= rightIdx) {</pre>
20
          if (array[leftIdx] > array[pivotIdx] && array[rightIdx] < array[</pre>
21
           swap(leftIdx, rightIdx, array);
          if (array[leftIdx] <= array[pivotIdx]) {</pre>
24
26
          if (array[rightIdx] >= array[pivotIdx]) {
27
           rightIdx--;
28
29
30
        swap(pivotIdx, rightIdx, array);
31
        if (rightIdx === position) {
         return array[rightIdx];
32
33
        } else if (rightIdx < position) {</pre>
```

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```
function quickselect(array, k) {
   // Write your code here.
}

// Do not edit the line below.
exports.quickselect = quickselect;
```



Run or submit code when you're ready.