Our Solution(s) Run Code

Solution 1

```java
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class Program {
  // Best: O(n) time | O(1) space
  // Average: O(n) time | O(1) space
  // Worst: O(n^2) time | O(1) space
  public static int quickselect(int[] array, int k) {
    int position = k - 1;
    return quickselect(array, 0, array.length - 1, position);
  }

  public static int quickselect(int[] array, int startIdx, int endIdx,
    while (true) {
      if (startIdx > endIdx) {
        throw new RuntimeException("Your Algorithm should never arrive
      }
      int pivotIdx = startIdx;
      int leftIdx = startIdx + 1;
      int rightIdx = endIdx;
      while (leftIdx <= rightIdx) {
        if (array[leftIdx] > array[pivotIdx] && array[rightIdx] < arra
          swap(leftIdx, rightIdx, array);
        }
        if (array[leftIdx] <= array[pivotIdx]) {
          leftIdx++;
        }
        if (array[rightIdx] >= array[pivotIdx]) {
          rightIdx--;
        }
      }
      swap(pivotIdx, rightIdx, array);
      if (rightIdx == position) {
        return array[rightIdx];
```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```java
class Program {
  public static int quickselect(int[] array, int k) {
    // Write your code here.
    return -1;
  }
}

```

Our Tests

Custom Output Submit Code

Run or submit code when you're ready.