Challenge: Binary Search

Complete the doSearch function so that it implements a binary search, following the pseudo-code below (this pseudo-code was described in the previous article):

- 1. Let min = 0 and max = n-1.
- 2. If max < min, then stop: target is not present in array. Return -1.
- 3. Compute guess as the average of max and min, rounded down (so that it is an integer).
- 4. If array[guess] equals target, then stop. You found it! Return guess.
- 5. If the guess was too low, that is, array[guess] < target, then set min = guess + 1.
- 6. Otherwise, the guess was too high. Set max = guess 1.
- 7. Go back to step 2.

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Python
🁙 Java
                           C++
                                         Js JS
     import java.util.Arrays;
    import java.lang.Integer;
                                                                                    class Solution {
       public static int doSearch(i
         int min = 0;
         System.out.println(Arrays.
         int max = array.length - 1
11
         int guess;
12
13
         while (min <= max) {</pre>
           int mid = (min + max) /
           if (array[mid] == target\)
17
             return mid;
           if (array[mid] < targetVa</pre>
20
21
             min = mid + 1;
22
           } else {
23
             max = mid - 1;
```